

Planck 2013 Results: Cosmological Parameter Tables

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Abstract

These tables summarize the results of *Planck* nominal mission parameter estimation exploration results. They include *Planck* data in combination with WMAP polarization, *Planck* lensing, and high- l CMB experiments, as well as additional non-CMB data as detailed in the main parameter papers.

1 Introduction

The tables are arranged grouped firstly by cosmological model, and then by data combination. The name tags match those of the full chains also provided on the PLA. They all start with **base** to denote the baseline model, followed by the parameter tags of any additional parameters that are also varied (as defined in the parameter paper). Data combination tags are as follows (see the parameters paper for full description and references):

Data tag	Data used
planck	high- l <i>Planck</i> temperature (CamSpec , $50 \leq l \leq 2500$)
lowl	low- l <i>Planck</i> temperature ($2 \leq l \leq 49$)
lensing	<i>Planck</i> lensing power spectrum reconstruction
lowLike	low- l WMAP 9 polarization
tauprior	A Gaussian prior on the optical depth, $\tau = 0.09 \pm 0.013$
BAO	Baryon oscillation data from DR7, DR9 and and 6DF
SNLS	Supernova data from the Supernova Legacy Survey
Union2	Supernova data from the Union compilation
HST	Hubble parameter constraint from HST (Riess et al)
WMAP	The full WMAP (temperature and polarization) 9 year data

Data likelihoods are either included when running the chains, or by importance sampling. Data combinations that are added by importance sampling appear at the end of the list, following the **post_** tag. WMAP9 chains are run from the WMAP9 likelihood code with the same baseline assumptions as *Planck*, and hence may differ slightly from those available on Lambda (e.g. the baseline model has non-zero neutrino mass). Note that the best fits are merely examples of parameter combinations that fit the data well, due to parameter degeneracies there may be other combinations of parameters that fit the data nearly equally well.

Beneath each table is the minus log Likelihood χ^2_{eff} for each best fit model, and also the contributions coming from each separate part of the likelihood. The $R - 1$ value is also given, which measures the convergence of the sampling chains, with small values being better converged. The sampling uncertainty on quoted mean values are typically of order $R - 1$ in units of the standard deviation.

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2 Baseline model

2.1 base_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02203	$0.02205^{+0.00056}_{-0.00055}$	γ^{CIB}	0.601	$0.53^{+0.23}_{-0.25}$	Y_P	0.247695	$0.24770^{+0.00024}_{-0.00024}$
$\Omega_c h^2$	0.1204	$0.1199^{+0.0053}_{-0.0052}$	c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8414	$1.836^{+0.026}_{-0.025}$
$100\theta_{\text{MC}}$	1.04119	$1.0413^{+0.0012}_{-0.0012}$	c_{217}	0.99647	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.824	$13.817^{+0.093}_{-0.096}$
τ	0.0925	$0.089^{+0.027}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.03	—	z_*	1090.48	$1090.4^{+1.1}_{-1.0}$
n_s	0.9619	$0.960^{+0.014}_{-0.014}$	A^{kSZ}	0.9	—	r_*	144.58	$144.7^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.0980	$3.089^{+0.051}_{-0.046}$	β_1^1	0.79	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04136	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	152	171^{+100}_{-100}	Ω_Λ	0.6817	$0.685^{+0.031}_{-0.034}$	z_{drag}	1059.25	$1059.2^{+1.1}_{-1.1}$
A_{143}^{PS}	63.3	54^{+30}_{-30}	Ω_m	0.3183	$0.315^{+0.034}_{-0.031}$	r_{drag}	147.36	$147.5^{+1.2}_{-1.2}$
A_{217}^{PS}	117.0	107^{+30}_{-30}	σ_8	0.8347	$0.829^{+0.025}_{-0.024}$	k_D	0.14022	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.37	$11.1^{+2.2}_{-2.2}$	$100\theta_D$	0.16138	$0.16140^{+0.00068}_{-0.00065}$
A_{217}^{CIB}	27.2	29^{+20}_{-10}	H_0	67.04	$67.3^{+2.4}_{-2.3}$	z_{eq}	3403	3391^{+120}_{-120}
A_{143}^{tSZ}	6.80	—	$10^9 A_s$	2.215	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8125	$0.815^{+0.023}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.916	> 0.734	$\Omega_m h^2$	0.14305	$0.1426^{+0.0050}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07126	$0.0715^{+0.0018}_{-0.0017}$
$r_{143 \times 217}^{\text{CIB}}$	0.406	< 0.796	$\Omega_m h^3$	0.09591	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.90$; R-1 = 0.00755

χ_{eff}^2 : CMB - lowLike: 2014.47 lowl: -6.72 CamSpec: 7797.91

2.2 base_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02225	$0.02218^{+0.00054}_{-0.00054}$	γ^{CIB}	0.556	$0.53^{+0.24}_{-0.25}$	Y_P	0.247788	$0.24776^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11801	$0.1184^{+0.0043}_{-0.0042}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8324	$1.830^{+0.021}_{-0.021}$
$100\theta_{\text{MC}}$	1.04152	$1.0415^{+0.0012}_{-0.0012}$	c_{217}	0.99642	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.783	$13.794^{+0.086}_{-0.089}$
τ	0.0947	$0.089^{+0.026}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1090.00	$1090.14^{+0.94}_{-0.93}$
n_s	0.9680	$0.964^{+0.013}_{-0.013}$	A^{kSZ}	0.0	—	r_*	145.03	$144.98^{+0.98}_{-0.96}$
$\ln(10^{10} A_s)$	3.0977	$3.086^{+0.047}_{-0.044}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04165	$1.0416^{+0.0012}_{-0.0012}$
A_{100}^{PS}	157	169^{+100}_{-100}	Ω_Λ	0.6967	$0.694^{+0.026}_{-0.027}$	z_{drag}	1059.59	$1059.4^{+1.1}_{-1.1}$
A_{143}^{PS}	65.8	51^{+30}_{-30}	Ω_m	0.3033	$0.306^{+0.027}_{-0.026}$	r_{drag}	147.75	$147.7^{+1.0}_{-0.97}$
A_{217}^{PS}	118.9	104^{+30}_{-30}	σ_8	0.8284	$0.823^{+0.019}_{-0.018}$	k_D	0.13999	$0.1400^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	0.0	—	z_{re}	11.43	$11.0^{+2.1}_{-2.1}$	$100\theta_D$	0.16119	$0.16128^{+0.00067}_{-0.00065}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	68.16	$67.9^{+2.0}_{-2.0}$	z_{eq}	3352	3360^{+97}_{-96}
A_{143}^{tSZ}	5.49	—	$10^9 A_s$	2.215	$2.19^{+0.10}_{-0.10}$	$100\theta_{\text{eq}}$	0.8226	$0.821^{+0.019}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.905	> 0.724	$\Omega_m h^2$	0.14091	$0.1413^{+0.0040}_{-0.0040}$	$r_{\text{drag}}/D_V(0.57)$	0.07209	$0.0719^{+0.0015}_{-0.0015}$
$r_{143 \times 217}^{\text{CIB}}$	0.561	< 0.794	$\Omega_m h^3$	0.09605	$0.0960^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9815.86$; R-1 = 0.01145

χ_{eff}^2 : CMB - lowLike: 2014.42 lensing: 9.69 lowl: -7.72 CamSpec: 7798.95

2.3 base_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022135	$0.02212^{+0.00049}_{-0.00049}$	γ^{CIB}	0.566	$0.53^{+0.23}_{-0.25}$	Y_P	0.247739	$0.24773^{+0.00021}_{-0.00021}$
$\Omega_c h^2$	0.11914	$0.1187^{+0.0034}_{-0.0033}$	c_{100}	1.00060	$1.00059^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8367	$1.831^{+0.018}_{-0.018}$
$100\theta_{\text{MC}}$	1.04139	$1.0415^{+0.0011}_{-0.0011}$	c_{217}	0.99650	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.803	$13.800^{+0.074}_{-0.074}$
τ	0.0932	$0.091^{+0.026}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1090.24	$1090.23^{+0.80}_{-0.77}$
n_s	0.9647	$0.963^{+0.011}_{-0.011}$	A^{kSZ}	1.23	—	r_*	144.82	$144.94^{+0.83}_{-0.83}$
$\ln(10^{10} A_s)$	3.0970	$3.090^{+0.051}_{-0.047}$	β_1^1	0.70	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04155	$1.0416^{+0.0011}_{-0.0011}$
A_{100}^{PS}	157	169^{+100}_{-100}	Ω_Λ	0.6897	$0.692^{+0.019}_{-0.021}$	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
A_{143}^{PS}	65.7	53^{+30}_{-30}	Ω_m	0.3103	$0.308^{+0.021}_{-0.019}$	r_{drag}	147.57	$147.70^{+0.88}_{-0.87}$
A_{217}^{PS}	118.2	106^{+30}_{-30}	σ_8	0.8307	$0.826^{+0.024}_{-0.022}$	k_D	0.14007	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	0.0	—	z_{re}	11.37	$11.2^{+2.2}_{-2.1}$	$100\theta_D$	0.16130	$0.16135^{+0.00066}_{-0.00064}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	67.63	$67.8^{+1.5}_{-1.5}$	z_{eq}	3376	3366^{+79}_{-76}
A_{143}^{tSZ}	5.39	—	$10^9 A_s$	2.213	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8178	$0.820^{+0.015}_{-0.015}$
$r_{143 \times 217}^{\text{PS}}$	0.909	> 0.729	$\Omega_m h^2$	0.14192	$0.1415^{+0.0033}_{-0.0032}$	$r_{\text{drag}}/D_V(0.57)$	0.07170	$0.0718^{+0.0011}_{-0.0012}$
$r_{143 \times 217}^{\text{CIB}}$	0.539	< 0.796	$\Omega_m h^3$	0.09598	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9807.46$; R-1 = 0.00932

χ_{eff}^2 : BAO - DR9: 0.19 DR7: 1.37 6DF: 0.01 CMB - lowLike: 2014.41 lowl: -7.24 CamSpec: 7798.27

2.4 base_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02228	$0.02226^{+0.00052}_{-0.00054}$	γ^{CIB}	0.530	$0.53^{+0.24}_{-0.25}$	Y_P	0.247803	$0.24779^{+0.00022}_{-0.00023}$
$\Omega_c h^2$	0.11767	$0.1171^{+0.0047}_{-0.0049}$	c_{100}	1.00059	$1.00060^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8306	$1.824^{+0.023}_{-0.023}$
$100\theta_{\text{MC}}$	1.04164	$1.0417^{+0.0012}_{-0.0012}$	c_{217}	0.99639	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.774	$13.771^{+0.089}_{-0.089}$
τ	0.0951	$0.095^{+0.027}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.26	—	z_*	1089.92	$1089.91^{+0.97}_{-0.94}$
n_s	0.9685	$0.967^{+0.014}_{-0.013}$	A^{kSZ}	0.5	—	r_*	145.09	$145.3^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.097	$3.093^{+0.052}_{-0.051}$	β_1^1	0.64	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04179	$1.0419^{+0.0012}_{-0.0012}$
A_{100}^{PS}	156	167^{+100}_{-100}	Ω_Λ	0.6991	$0.702^{+0.028}_{-0.029}$	z_{drag}	1059.63	$1059.5^{+1.1}_{-1.1}$
A_{143}^{PS}	65.4	52^{+30}_{-20}	Ω_m	0.3009	$0.298^{+0.029}_{-0.028}$	r_{drag}	147.80	$148.0^{+1.1}_{-1.1}$
A_{217}^{PS}	121.9	106^{+30}_{-30}	σ_8	0.8265	$0.822^{+0.025}_{-0.024}$	k_D	0.13996	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.45	$11.4^{+2.2}_{-2.1}$	$100\theta_D$	0.16117	$0.16124^{+0.00064}_{-0.00062}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	68.36	$68.6^{+2.2}_{-2.1}$	z_{eq}	3344	3331^{+110}_{-110}
A_{143}^{tSZ}	5.51	—	$10^9 A_s$	2.214	$2.20^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8241	$0.827^{+0.022}_{-0.020}$
$r_{143 \times 217}^{\text{PS}}$	0.911	> 0.729	$\Omega_m h^2$	0.14060	$0.1400^{+0.0045}_{-0.0046}$	$r_{\text{drag}}/D_V(0.57)$	0.07224	$0.0724^{+0.0018}_{-0.0016}$
$r_{143 \times 217}^{\text{CIB}}$	0.518	< 0.791	$\Omega_m h^3$	0.09611	$0.0960^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9811.70$; R-1 = 0.01218

χ_{eff}^2 : CMB - lowLike: 2014.41 lowl: -7.81 CamSpec: 7799.25 Hubble - HST: 5.13

2.5 base_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02217^{+0.00054}_{-0.00054}$	γ^{CIB}	0.531	$0.53^{+0.23}_{-0.25}$	Y_P	0.247755	$0.24775^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11858	$0.1181^{+0.0049}_{-0.0049}$	\mathbf{c}_{100}	1.00058	$1.00059^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8341	$1.828^{+0.024}_{-0.023}$
$100\theta_{\text{MC}}$	1.04147	$1.0415^{+0.0012}_{-0.0012}$	\mathbf{c}_{217}	0.99639	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.795	$13.790^{+0.090}_{-0.093}$
τ	0.0942	$0.093^{+0.027}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.21	—	z_*	1090.15	$1090.11^{+0.99}_{-0.96}$
n_s	0.9662	$0.964^{+0.014}_{-0.014}$	\mathbf{A}^{kSZ}	0.7	—	r_*	144.94	$145.1^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.098	$3.091^{+0.051}_{-0.050}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04161	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	150	169^{+100}_{-100}	Ω_Λ	0.6931	$0.696^{+0.029}_{-0.030}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.1}$
A_{143}^{PS}	64.3	53^{+30}_{-30}	Ω_m	0.3069	$0.304^{+0.030}_{-0.029}$	r_{drag}	147.68	$147.8^{+1.1}_{-1.1}$
A_{217}^{PS}	122.9	106^{+30}_{-30}	σ_8	0.8294	$0.824^{+0.025}_{-0.024}$	k_D	0.13999	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.43	$11.3^{+2.2}_{-2.1}$	$100\theta_D$	0.16127	$0.16132^{+0.00067}_{-0.00063}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	67.88	$68.1^{+2.3}_{-2.2}$	z_{eq}	3363	3351^{+110}_{-110}
A_{143}^{tSZ}	6.12	—	$10^9 A_s$	2.214	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8202	$0.823^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.911	> 0.729	$\Omega_m h^2$	0.14140	$0.1409^{+0.0046}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07189	$0.0721^{+0.0018}_{-0.0016}$
$r_{143 \times 217}^{\text{CIB}}$	0.496	< 0.793	$\Omega_m h^3$	0.09598	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 10235.05$; R-1 = 0.00882

χ_{eff}^2 : CMB - lowLike: 2014.43 lowl: -7.49 CamSpec: 7798.27 SN - SNLS: 429.12

2.6 base_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02209^{+0.00055}_{-0.00054}$	γ^{CIB}	0.544	$0.53^{+0.25}_{-0.25}$	Y_P	0.247732	$0.24772^{+0.00024}_{-0.00023}$
$\Omega_c h^2$	0.11967	$0.1192^{+0.0051}_{-0.0049}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8388	$1.833^{+0.025}_{-0.024}$
$100\theta_{\text{MC}}$	1.04136	$1.0414^{+0.0012}_{-0.0012}$	c_{217}	0.99639	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.808	$13.807^{+0.090}_{-0.094}$
τ	0.0930	$0.091^{+0.027}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1090.32	$1090.3^{+1.0}_{-1.0}$
n_s	0.9640	$0.962^{+0.014}_{-0.014}$	A^{kSZ}	0.7	—	r_*	144.70	$144.8^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0978	$3.090^{+0.051}_{-0.047}$	β_1^1	0.70	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04151	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	147	170^{+100}_{-100}	Ω_Λ	0.6866	$0.689^{+0.029}_{-0.032}$	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
A_{143}^{PS}	63.6	53^{+30}_{-30}	Ω_m	0.3134	$0.311^{+0.032}_{-0.029}$	r_{drag}	147.45	$147.6^{+1.1}_{-1.1}$
A_{217}^{PS}	122.4	107^{+30}_{-30}	σ_8	0.8326	$0.827^{+0.025}_{-0.024}$	k_D	0.14019	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.37	$11.1^{+2.2}_{-2.1}$	$100\theta_D$	0.16130	$0.16137^{+0.00067}_{-0.00065}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	67.41	$67.6^{+2.3}_{-2.2}$	z_{eq}	3388	3377^{+110}_{-110}
A_{143}^{tSZ}	6.42	—	$10^9 A_s$	2.215	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8155	$0.818^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.915	> 0.731	$\Omega_m h^2$	0.14243	$0.1420^{+0.0048}_{-0.0046}$	$r_{\text{drag}}/D_V(0.57)$	0.07153	$0.0717^{+0.0017}_{-0.0017}$
$r_{143 \times 217}^{\text{CIB}}$	0.479	< 0.795	$\Omega_m h^3$	0.09602	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9936.17$; R-1 = 0.00779

χ_{eff}^2 : CMB - lowLike: 2014.44 lowl: -7.10 CamSpec: 7797.72 SN - Union2.1: 130.51

2.7 base_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02207	$0.02207^{+0.00054}_{-0.00052}$	$A_{148}^{\text{PS, ACT}}$	10.22	$10.5^{+1.2}_{-1.1}$	z_{re}	11.38	$11.1^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1203	$0.1198^{+0.0052}_{-0.0051}$	$A_{218}^{\text{PS, ACT}}$	75.2	77^{+9}_{-9}	H_0	67.15	$67.3^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04130	$1.0413^{+0.0013}_{-0.0012}$	$A_{95}^{\text{PS, SPT}}$	7.02	$7.64^{+2.9}_{-2.8}$	$10^9 A_s$	2.211	$2.20^{+0.11}_{-0.10}$
τ	0.0927	$0.091^{+0.027}_{-0.025}$	$A_{150}^{\text{PS, SPT}}$	9.66	$10.1^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14297	$0.1425^{+0.0049}_{-0.0048}$
n_s	0.9582	$0.959^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	72.0	74^{+9}_{-9}	$\Omega_m h^3$	0.09600	$0.0959^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.0959	$3.090^{+0.050}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.830	> 0.682	Y_P	0.247711	$0.24771^{+0.00023}_{-0.00023}$
A_{100}^{PS}	209	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.583	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8365	$1.833^{+0.025}_{-0.025}$
A_{143}^{PS}	72.6	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9080	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.817	$13.813^{+0.090}_{-0.093}$
A_{217}^{PS}	59.5	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.44^{+0.36}_{-0.39}$	z_*	1090.43	$1090.4^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.57	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.879	$0.85^{+0.39}_{-0.39}$	r_*	144.59	$144.7^{+1.2}_{-1.2}$
A_{217}^{CIB}	53.9	50^{+10}_{-9}	y_{148}^{ACTs}	0.9913	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04146	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.17	< 5.06	y_{217}^{ACTs}	1.0022	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.825	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9873	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.35	$147.5^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9605	$0.964^{+0.021}_{-0.020}$	k_D	0.14026	$0.1401^{+0.0012}_{-0.0012}$
γ^{CIB}	0.674	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9848	$0.984^{+0.039}_{-0.037}$	$100\theta_D$	0.16134	$0.16136^{+0.00064}_{-0.00063}$
c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00077}$	y_{150}^{SPT}	0.9845	$0.988^{+0.019}_{-0.018}$	z_{eq}	3401	3390^{+120}_{-120}
c_{217}	0.99743	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0173	$1.024^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8130	$0.815^{+0.022}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.834	Ω_Λ	0.6830	$0.685^{+0.031}_{-0.033}$	$r_{\text{drag}}/D_V(0.57)$	0.07133	$0.0715^{+0.0018}_{-0.0017}$
A^{kSZ}	0.89	$5.34^{+4.0}_{-4.4}$	Ω_m	0.3170	$0.315^{+0.033}_{-0.031}$			
β_1^1	0.56	$0.4^{+1.1}_{-1.1}$	σ_8	0.8322	$0.828^{+0.025}_{-0.024}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.55$; R-1 = 0.00669

χ_{eff}^2 : CMB - lowLike: 2014.48 lowl: -5.92 CamSpec: 7807.82 highL: 692.97

2.8 base_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02218^{+0.00052}_{-0.00051}$	$A_{148}^{\text{PS, ACT}}$	10.44	$10.7^{+1.2}_{-1.1}$	z_{re}	11.42	$11.1^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.11847	$0.1186^{+0.0043}_{-0.0043}$	$A_{218}^{\text{PS, ACT}}$	76.5	77^{+9}_{-9}	H_0	67.94	$67.9^{+2.0}_{-2.0}$
$100\theta_{\text{MC}}$	1.04146	$1.0414^{+0.0012}_{-0.0012}$	$A_{95}^{\text{PS, SPT}}$	7.53	$7.84^{+3.0}_{-2.7}$	$10^9 A_s$	2.208	$2.19^{+0.10}_{-0.096}$
τ	0.0943	$0.090^{+0.026}_{-0.024}$	$A_{150}^{\text{PS, SPT}}$	9.97	$10.2^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14131	$0.1414^{+0.0040}_{-0.0041}$
n_s	0.9624	$0.961^{+0.012}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	73.4	75^{+9}_{-9}	$\Omega_m h^3$	0.09601	$0.0960^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.0947	$3.087^{+0.046}_{-0.045}$	$r_{95 \times 150}^{\text{PS}}$	0.799	> 0.683	Y_P	0.247767	$0.24776^{+0.00022}_{-0.00022}$
A_{100}^{PS}	204	213^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.545	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8284	$1.829^{+0.020}_{-0.021}$
A_{143}^{PS}	72.2	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9074	$0.935^{+0.049}_{-0.045}$	Age/Gyr	13.791	$13.794^{+0.084}_{-0.088}$
A_{217}^{PS}	60.2	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.36}_{-0.39}$	z_*	1090.10	$1090.14^{+0.91}_{-0.92}$
A_{143}^{CIB}	3.25	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.39}_{-0.39}$	r_*	144.95	$144.93^{+0.99}_{-0.97}$
A_{217}^{CIB}	52.3	50^{+10}_{-9}	y_{148}^{ACTs}	0.9919	$0.993^{+0.015}_{-0.014}$	$100\theta_*$	1.04161	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.64	< 4.92	y_{217}^{ACTs}	1.0035	$1.006^{+0.028}_{-0.026}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.814	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9881	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.68	$147.67^{+0.99}_{-0.97}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.844	y_{217}^{ACTe}	0.9618	$0.965^{+0.021}_{-0.020}$	k_D	0.14001	$0.1400^{+0.0011}_{-0.0011}$
γ^{CIB}	0.656	$0.64^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9849	$0.985^{+0.040}_{-0.037}$	$100\theta_D$	0.16124	$0.16126^{+0.00063}_{-0.00062}$
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00077}$	y_{150}^{SPT}	0.9862	$0.989^{+0.020}_{-0.018}$	z_{eq}	3361	3364^{+97}_{-98}
c_{217}	0.99731	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0177	$1.026^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8206	$0.820^{+0.019}_{-0.018}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.820	Ω_Λ	0.6939	$0.693^{+0.026}_{-0.027}$	$r_{\text{drag}}/D_V(0.57)$	0.07193	$0.0719^{+0.0015}_{-0.0015}$
A^{kSZ}	1.14	$4.74^{+3.7}_{-4.1}$	Ω_m	0.3061	$0.307^{+0.027}_{-0.026}$			
β_1^1	0.38	$0.4^{+1.1}_{-1.0}$	σ_8	0.8271	$0.823^{+0.019}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.42$; R-1 = 0.01993

χ_{eff}^2 : CMB - lowLike: 2014.44 lensing: 9.54 lowl: -6.83 CamSpec: 7808.79 highL: 691.37

2.9 base_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022161	$0.02214^{+0.00048}_{-0.00047}$	$A_{148}^{\text{PS, ACT}}$	10.24	$10.5^{+1.2}_{-1.1}$	z_{re}	11.52	$11.3^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.11889	$0.1187^{+0.0034}_{-0.0033}$	$A_{218}^{\text{PS, ACT}}$	75.6	77^{+9}_{-9}	H_0	67.77	$67.8^{+1.5}_{-1.5}$
$100\theta_{\text{MC}}$	1.04148	$1.0415^{+0.0011}_{-0.0011}$	$A_{95}^{\text{PS, SPT}}$	7.14	$7.66^{+3.0}_{-2.8}$	$10^9 A_s$	2.214	$2.20^{+0.11}_{-0.10}$
τ	0.0952	$0.092^{+0.026}_{-0.024}$	$A_{150}^{\text{PS, SPT}}$	9.76	$10.1^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14170	$0.1415^{+0.0033}_{-0.0031}$
n_s	0.9611	$0.961^{+0.011}_{-0.011}$	$A_{220}^{\text{PS, SPT}}$	72.6	74^{+9}_{-9}	$\Omega_m h^3$	0.09602	$0.0960^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.0973	$3.091^{+0.050}_{-0.048}$	$r_{95 \times 150}^{\text{PS}}$	0.806	> 0.680	Y_{P}	0.247750	$0.24774^{+0.00020}_{-0.00020}$
A_{100}^{PS}	204	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.563	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8301	$1.828^{+0.018}_{-0.018}$
A_{143}^{PS}	71.8	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9112	$0.937^{+0.048}_{-0.045}$	Age/Gyr	13.796	$13.798^{+0.071}_{-0.073}$
A_{217}^{PS}	59.4	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.43^{+0.36}_{-0.39}$	z_*	1090.19	$1090.20^{+0.77}_{-0.75}$
A_{143}^{CIB}	3.30	$3.25^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.85^{+0.39}_{-0.39}$	r_*	144.87	$144.92^{+0.81}_{-0.83}$
A_{217}^{CIB}	53.0	50^{+10}_{-9}	y_{148}^{ACTs}	0.9919	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04163	$1.0416^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.86	< 5.02	y_{217}^{ACTs}	1.0025	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.44	$1059.4^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.824	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9878	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.61	$147.68^{+0.88}_{-0.89}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9614	$0.964^{+0.021}_{-0.020}$	k_{D}	0.14006	$0.1400^{+0.0011}_{-0.0011}$
γ^{CIB}	0.667	$0.64^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9849	$0.984^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16128	$0.16132^{+0.00062}_{-0.00061}$
c_{100}	1.00058	$1.00058^{+0.00080}_{-0.00077}$	y_{150}^{SPT}	0.9851	$0.988^{+0.019}_{-0.018}$	z_{eq}	3370	3366^{+79}_{-75}
c_{217}	0.99733	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0173	$1.025^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8189	$0.820^{+0.014}_{-0.015}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.834	Ω_{Λ}	0.6914	$0.692^{+0.019}_{-0.021}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07180	$0.0718^{+0.0011}_{-0.0011}$
A^{kSZ}	1.58	—	Ω_{m}	0.3086	$0.308^{+0.021}_{-0.019}$			
β_1^1	0.45	$0.4^{+1.1}_{-1.1}$	σ_8	0.8288	$0.826^{+0.023}_{-0.022}$			

Best-fit $\chi_{\text{eff}}^2 = 10510.84$; R-1 = 0.00964

χ_{eff}^2 : BAO - DR7: 1.16 DR9: 0.28 6DF: 0.01 CMB - lowLike: 2014.55 lowl: -6.52 CamSpec: 7808.56 highL: 692.72

2.10 base_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02224	$0.02228^{+0.00054}_{-0.00052}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.6^{+1.2}_{-1.1}$	z_{re}	11.59	$11.4^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11782	$0.1171^{+0.0047}_{-0.0048}$	$A_{218}^{\text{PS, ACT}}$	75.6	77^{+9}_{-9}	H_0	68.27	$68.6^{+2.3}_{-2.1}$
$100\theta_{\text{MC}}$	1.04165	$1.0417^{+0.0012}_{-0.0012}$	$A_{95}^{\text{PS, SPT}}$	7.20	$7.71^{+3.0}_{-2.9}$	$10^9 A_s$	2.214	$2.21^{+0.11}_{-0.12}$
τ	0.0966	$0.096^{+0.027}_{-0.026}$	$A_{150}^{\text{PS, SPT}}$	9.74	$10.1^{+1.0}_{-0.97}$	$\Omega_m h^2$	0.14071	$0.1401^{+0.0045}_{-0.0044}$
n_s	0.9637	$0.965^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	72.5	75^{+9}_{-9}	$\Omega_m h^3$	0.09607	$0.0960^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.098	$3.093^{+0.051}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.819	> 0.681	Y_P	0.247786	$0.24780^{+0.00023}_{-0.00022}$
A_{100}^{PS}	200	211^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.573	$0.59^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8252	$1.822^{+0.023}_{-0.023}$
A_{143}^{PS}	71.3	71^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9085	$0.937^{+0.049}_{-0.045}$	Age/Gyr	13.778	$13.769^{+0.087}_{-0.094}$
A_{217}^{PS}	59.7	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.44^{+0.37}_{-0.39}$	z_*	1089.99	$1089.88^{+0.94}_{-0.93}$
A_{143}^{CIB}	3.50	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.85^{+0.39}_{-0.39}$	r_*	145.08	$145.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	53.2	50^{+10}_{-10}	y_{148}^{ACTs}	0.9919	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04179	$1.0419^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.14	< 5.00	y_{217}^{ACTs}	1.0024	$1.007^{+0.027}_{-0.026}$	z_{drag}	1059.55	$1059.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9882	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.80	$147.9^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9602	$0.965^{+0.021}_{-0.020}$	k_D	0.13992	$0.1398^{+0.0012}_{-0.0012}$
γ^{CIB}	0.665	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9857	$0.985^{+0.041}_{-0.037}$	$100\theta_D$	0.16122	$0.16121^{+0.00063}_{-0.00061}$
c_{100}	1.00061	$1.00060^{+0.00081}_{-0.00077}$	y_{150}^{SPT}	0.9858	$0.989^{+0.019}_{-0.018}$	z_{eq}	3347	3332^{+110}_{-110}
c_{217}	0.99738	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0177	$1.026^{+0.049}_{-0.044}$	$100\theta_{\text{eq}}$	0.8236	$0.827^{+0.022}_{-0.020}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.835	Ω_Λ	0.6981	$0.702^{+0.028}_{-0.029}$	$r_{\text{drag}}/D_V(0.57)$	0.07219	$0.0724^{+0.0017}_{-0.0016}$
A^{kSZ}	0.96	$5.35^{+4.0}_{-4.5}$	Ω_m	0.3019	$0.298^{+0.029}_{-0.028}$			
β_1^1	0.38	$0.3^{+1.1}_{-1.1}$	σ_8	0.8257	$0.822^{+0.025}_{-0.025}$			

Best-fit $\chi_{\text{eff}}^2 = 10515.40$; R-1 = 0.01522

χ_{eff}^2 : CMB - lowLike: 2014.58 lowl: -7.00 CamSpec: 7809.47 highL: 692.95 Hubble - HST: 5.29

2.11 base_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02219^{+0.00053}_{-0.00052}$	$A_{148}^{\text{PS, ACT}}$	10.30	$10.5^{+1.2}_{-1.1}$	z_{re}	11.54	$11.3^{+2.1}_{-2.2}$
$\Omega_c h^2$	0.11848	$0.1181^{+0.0048}_{-0.0049}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	67.96	$68.1^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04155	$1.0416^{+0.0012}_{-0.0012}$	$A_{95}^{\text{PS, SPT}}$	7.46	$7.68^{+3.0}_{-2.8}$	$10^9 A_s$	2.214	$2.20^{+0.11}_{-0.11}$
τ	0.0956	$0.094^{+0.027}_{-0.025}$	$A_{150}^{\text{PS, SPT}}$	9.82	$10.1^{+1.0}_{-0.97}$	$\Omega_m h^2$	0.14132	$0.1409^{+0.0046}_{-0.0047}$
n_s	0.9620	$0.962^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	73.2	74^{+9}_{-9}	$\Omega_m h^3$	0.09604	$0.0960^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.097	$3.092^{+0.051}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.791	> 0.681	Y_P	0.247765	$0.24776^{+0.00023}_{-0.00023}$
A_{100}^{PS}	202	211^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.541	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8283	$1.825^{+0.023}_{-0.024}$
A_{143}^{PS}	72.1	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9100	$0.937^{+0.049}_{-0.045}$	Age/Gyr	13.789	$13.787^{+0.087}_{-0.092}$
A_{217}^{PS}	60.8	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.430	$0.44^{+0.36}_{-0.39}$	z_*	1090.11	$1090.08^{+0.96}_{-0.99}$
A_{143}^{CIB}	3.21	$3.25^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.848	$0.85^{+0.39}_{-0.39}$	r_*	144.95	$145.1^{+1.1}_{-1.1}$
A_{217}^{CIB}	51.8	50^{+10}_{-9}	y_{148}^{ACTs}	0.9917	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04169	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.60	< 5.01	y_{217}^{ACTs}	1.0035	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.809	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9880	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.68	$147.8^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9615	$0.965^{+0.021}_{-0.020}$	k_D	0.14001	$0.1399^{+0.0012}_{-0.0012}$
γ^{CIB}	0.652	$0.64^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9847	$0.985^{+0.040}_{-0.037}$	$100\theta_D$	0.16126	$0.16128^{+0.00063}_{-0.00062}$
c_{100}	1.00059	$1.00059^{+0.00081}_{-0.00077}$	y_{150}^{SPT}	0.9853	$0.988^{+0.019}_{-0.018}$	z_{eq}	3361	3352^{+110}_{-110}
c_{217}	0.99730	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0161	$1.025^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8206	$0.823^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.836	Ω_Λ	0.6940	$0.696^{+0.029}_{-0.030}$	$r_{\text{drag}}/D_V(0.57)$	0.07195	$0.0721^{+0.0018}_{-0.0016}$
A^{kSZ}	1.80	—	Ω_m	0.3060	$0.304^{+0.030}_{-0.029}$			
β_1^1	0.39	$0.3^{+1.1}_{-1.1}$	σ_8	0.8275	$0.824^{+0.025}_{-0.024}$			

Best-fit $\chi_{\text{eff}}^2 = 10938.52$; R-1 = 0.01030

χ_{eff}^2 : CMB - lowLike: 2014.55 lowl: -6.68 CamSpec: 7808.72 highL: 692.75 SN - SNLS: 429.04

2.12 base_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02212^{+0.00054}_{-0.00051}$	$A_{148}^{\text{PS, ACT}}$	10.27	$10.5^{+1.2}_{-1.1}$	z_{re}	11.45	$11.2^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11950	$0.1192^{+0.0050}_{-0.0049}$	$A_{218}^{\text{PS, ACT}}$	76.0	77^{+9}_{-9}	H_0	67.49	$67.6^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04138	$1.0414^{+0.0012}_{-0.0012}$	$A_{95}^{\text{PS, SPT}}$	7.25	$7.66^{+3.0}_{-2.8}$	$10^9 A_s$	2.212	$2.20^{+0.11}_{-0.10}$
τ	0.0941	$0.092^{+0.027}_{-0.025}$	$A_{150}^{\text{PS, SPT}}$	9.77	$10.1^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14227	$0.1420^{+0.0047}_{-0.0046}$
n_s	0.9599	$0.960^{+0.014}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	72.8	74^{+9}_{-9}	$\Omega_m h^3$	0.09602	$0.0959^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.0965	$3.090^{+0.050}_{-0.048}$	$r_{95 \times 150}^{\text{PS}}$	0.803	> 0.681	Y_P	0.247734	$0.24773^{+0.00023}_{-0.00022}$
A_{100}^{PS}	202	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.556	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8327	$1.830^{+0.024}_{-0.024}$
A_{143}^{PS}	72.2	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9104	$0.937^{+0.048}_{-0.045}$	Age/Gyr	13.806	$13.804^{+0.087}_{-0.091}$
A_{217}^{PS}	60.4	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.430	$0.44^{+0.36}_{-0.39}$	z_*	1090.29	$1090.28^{+0.97}_{-0.98}$
A_{143}^{CIB}	3.30	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.85^{+0.39}_{-0.39}$	r_*	144.74	$144.8^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.6	50^{+10}_{-9}	y_{148}^{ACTs}	0.9916	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04154	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.82	< 5.02	y_{217}^{ACTs}	1.0025	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.818	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9878	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.49	$147.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9608	$0.964^{+0.021}_{-0.020}$	k_D	0.14016	$0.1400^{+0.0012}_{-0.0012}$
γ^{CIB}	0.660	$0.64^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9844	$0.984^{+0.040}_{-0.037}$	$100\theta_D$	0.16130	$0.16133^{+0.00063}_{-0.00062}$
c_{100}	1.00059	$1.00059^{+0.00080}_{-0.00077}$	y_{150}^{SPT}	0.9849	$0.988^{+0.019}_{-0.018}$	z_{eq}	3384	3377^{+110}_{-110}
c_{217}	0.99735	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0170	$1.025^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8162	$0.818^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.834	Ω_Λ	0.6876	$0.689^{+0.029}_{-0.031}$	$r_{\text{drag}}/D_V(0.57)$	0.07159	$0.0717^{+0.0017}_{-0.0016}$
A^{kSZ}	1.53	—	Ω_m	0.3124	$0.311^{+0.031}_{-0.029}$			
β_1^1	0.43	$0.4^{+1.1}_{-1.1}$	σ_8	0.8302	$0.827^{+0.025}_{-0.024}$			

Best-fit $\chi_{\text{eff}}^2 = 10639.67$; R-1 = 0.00779

χ_{eff}^2 : CMB - lowLike: 2014.51 lowl: -6.30 CamSpec: 7808.05 highL: 692.81 SN - Union2.1: 130.48

2.13 base_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02207	$0.02207^{+0.00067}_{-0.00064}$	γ^{CIB}	0.557	$0.53^{+0.24}_{-0.26}$	Y_P	0.247710	$0.24771^{+0.00029}_{-0.00028}$
$\Omega_c h^2$	0.1203	$0.1196^{+0.0061}_{-0.0061}$	\mathbf{c}_{100}	1.00058	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8411	$1.834^{+0.029}_{-0.029}$
$100\theta_{\text{MC}}$	1.04122	$1.0413^{+0.0013}_{-0.0013}$	\mathbf{c}_{217}	0.99642	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.819	$13.81^{+0.11}_{-0.12}$
τ	0.092	$0.097^{+0.070}_{-0.080}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.43	$1090.4^{+1.3}_{-1.3}$
n_s	0.9624	$0.962^{+0.019}_{-0.018}$	\mathbf{A}^{kSZ}	0.7	—	r_*	144.58	$144.8^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.098	$3.10^{+0.14}_{-0.15}$	β_1^1	0.76	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04139	$1.0415^{+0.0013}_{-0.0013}$
A_{100}^{PS}	148	169^{+100}_{-100}	Ω_Λ	0.6825	$0.686^{+0.037}_{-0.040}$	z_{drag}	1059.32	$1059.3^{+1.3}_{-1.3}$
A_{143}^{PS}	63.1	54^{+30}_{-30}	Ω_m	0.3175	$0.314^{+0.040}_{-0.037}$	r_{drag}	147.34	$147.5^{+1.2}_{-1.2}$
A_{217}^{PS}	121.0	107^{+30}_{-30}	σ_8	0.834	$0.834^{+0.052}_{-0.051}$	k_D	0.14026	$0.1401^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$11.4^{+6.2}_{-7.0}$	$100\theta_D$	0.16133	$0.16137^{+0.00074}_{-0.00072}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	67.11	$67.4^{+2.9}_{-2.7}$	z_{eq}	3402	3386^{+140}_{-130}
A_{143}^{tSZ}	6.99	—	$10^9 A_s$	2.215	$2.23^{+0.31}_{-0.32}$	$100\theta_{\text{eq}}$	0.8128	$0.816^{+0.027}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.893	> 0.736	$\Omega_m h^2$	0.1430	$0.1423^{+0.0057}_{-0.0056}$	$r_{\text{drag}}/D_V(0.57)$	0.07130	$0.0716^{+0.0022}_{-0.0020}$
$r_{143 \times 217}^{\text{CIB}}$	0.421	< 0.801	$\Omega_m h^3$	0.09597	$0.0959^{+0.0012}_{-0.0011}$			

Best-fit $\chi^2_{\text{eff}} = 7791.18$; R-1 = 0.00526

χ^2_{eff} : CMB - lowl: -6.80 CamSpec: 7797.47

2.14 base_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02224	$0.02217^{+0.00067}_{-0.00064}$	γ^{CIB}	0.578	$0.53^{+0.24}_{-0.26}$	Y_P	0.247785	$0.24775^{+0.00029}_{-0.00028}$
$\Omega_c h^2$	0.1181	$0.1186^{+0.0060}_{-0.0061}$	\mathbf{c}_{100}	1.00060	$1.00059^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8321	$1.830^{+0.029}_{-0.029}$
$100\theta_{\text{MC}}$	1.04150	$1.0414^{+0.0013}_{-0.0013}$	\mathbf{c}_{217}	0.99644	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.784	$13.80^{+0.11}_{-0.12}$
τ	0.095	$0.089^{+0.063}_{-0.061}$	$\xi^{\text{tSZ-CIB}}$	0.20	—	z_*	1090.01	$1090.2^{+1.3}_{-1.2}$
n_s	0.9675	$0.964^{+0.019}_{-0.018}$	\mathbf{A}^{kSZ}	0.6	—	r_*	145.02	$145.0^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.098	$3.09^{+0.11}_{-0.11}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0416^{+0.0013}_{-0.0013}$
A_{100}^{PS}	154	169^{+100}_{-100}	Ω_Λ	0.6964	$0.693^{+0.036}_{-0.039}$	z_{drag}	1059.59	$1059.4^{+1.3}_{-1.3}$
A_{143}^{PS}	65.2	52^{+30}_{-30}	Ω_m	0.3036	$0.307^{+0.039}_{-0.036}$	r_{drag}	147.74	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	116.7	104^{+30}_{-30}	σ_8	0.8285	$0.823^{+0.036}_{-0.034}$	k_D	0.13998	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$10.8^{+5.3}_{-5.6}$	$100\theta_D$	0.16120	$0.16129^{+0.00072}_{-0.00072}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	68.14	$67.9^{+2.9}_{-2.8}$	z_{eq}	3352	3362^{+130}_{-130}
A_{143}^{tSZ}	5.51	—	$10^9 A_s$	2.215	$2.19^{+0.25}_{-0.25}$	$100\theta_{\text{eq}}$	0.8224	$0.821^{+0.027}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.920	> 0.725	$\Omega_m h^2$	0.1409	$0.1414^{+0.0056}_{-0.0056}$	$r_{\text{drag}}/D_V(0.57)$	0.07207	$0.0719^{+0.0022}_{-0.0020}$
$r_{143 \times 217}^{\text{CIB}}$	0.744	< 0.799	$\Omega_m h^3$	0.09603	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi^2_{\text{eff}} = 7801.53$; R-1 = 0.01047

χ^2_{eff} : CMB - lensing: 9.70 lowl: -7.65 CamSpec: 7799.11

2.15 base_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02216^{+0.00054}_{-0.00052}$	γ^{CIB}	0.521	$0.53^{+0.24}_{-0.25}$	Y_P	0.247760	$0.24775^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11866	$0.1185^{+0.0037}_{-0.0035}$	\mathbf{c}_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8327	$1.829^{+0.020}_{-0.019}$
$100\theta_{\text{MC}}$	1.04148	$1.0415^{+0.0011}_{-0.0012}$	\mathbf{c}_{217}	0.99632	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.793	$13.795^{+0.081}_{-0.082}$
τ	0.097	$0.104^{+0.063}_{-0.069}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.14	$1090.16^{+0.87}_{-0.87}$
n_s	0.9658	$0.964^{+0.013}_{-0.013}$	\mathbf{A}^{kSZ}	0.0	—	r_*	144.91	$144.98^{+0.85}_{-0.86}$
$\ln(10^{10} A_s)$	3.103	$3.12^{+0.12}_{-0.14}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04162	$1.0416^{+0.0011}_{-0.0011}$
A_{100}^{PS}	128	166^{+100}_{-100}	Ω_Λ	0.6928	$0.693^{+0.021}_{-0.023}$	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.1}$
A_{143}^{PS}	56.8	53^{+30}_{-30}	Ω_m	0.3072	$0.307^{+0.023}_{-0.021}$	r_{drag}	147.65	$147.73^{+0.89}_{-0.90}$
A_{217}^{PS}	120.2	107^{+30}_{-30}	σ_8	0.832	$0.836^{+0.050}_{-0.053}$	k_D	0.14004	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	1.03	—	z_{re}	11.7	$12.1^{+5.5}_{-6.0}$	$100\theta_D$	0.16126	$0.16131^{+0.00067}_{-0.00066}$
A_{217}^{CIB}	26	28^{+20}_{-10}	H_0	67.86	$67.9^{+1.7}_{-1.7}$	z_{eq}	3366	3361^{+84}_{-79}
A_{143}^{tSZ}	9.12	—	$10^9 A_s$	2.227	$2.26^{+0.29}_{-0.29}$	$100\theta_{\text{eq}}$	0.8198	$0.821^{+0.015}_{-0.016}$
$r_{143 \times 217}^{\text{PS}}$	0.890	> 0.737	$\Omega_m h^2$	0.14149	$0.1413^{+0.0035}_{-0.0033}$	$r_{\text{drag}}/D_V(0.57)$	0.07187	$0.0719^{+0.0012}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	0.462	< 0.795	$\Omega_m h^3$	0.09602	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 7792.63$; R-1 = 0.00888

χ_{eff}^2 : BAO - DR7: 1.01 6DF: 0.02 DR9: 0.34 CMB - lowl: -7.29 CamSpec: 7797.75

2.16 base_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02232	$0.02239^{+0.00062}_{-0.00061}$	γ^{CIB}	0.526	$0.52^{+0.24}_{-0.26}$	Y_P	0.247818	$0.24785^{+0.00026}_{-0.00026}$
$\Omega_c h^2$	0.1171	$0.1160^{+0.0054}_{-0.0050}$	c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8263	$1.819^{+0.027}_{-0.025}$
$100\theta_{\text{MC}}$	1.04173	$1.0419^{+0.0012}_{-0.0012}$	c_{217}	0.99629	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.765	$13.75^{+0.10}_{-0.10}$
τ	0.099	$0.127^{+0.072}_{-0.077}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.83	$1089.6^{+1.1}_{-1.1}$
n_s	0.9695	$0.972^{+0.017}_{-0.017}$	A^{kSZ}	0.0	—	r_*	145.21	$145.4^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.104	$3.15^{+0.14}_{-0.14}$	β_1^1	0.60	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04187	$1.0420^{+0.0012}_{-0.0012}$
A_{100}^{PS}	132	159^{+100}_{-100}	Ω_Λ	0.7025	$0.709^{+0.032}_{-0.031}$	z_{drag}	1059.70	$1059.8^{+1.3}_{-1.2}$
A_{143}^{PS}	55.1	50^{+20}_{-20}	Ω_m	0.2975	$0.291^{+0.031}_{-0.032}$	r_{drag}	147.91	$148.1^{+1.1}_{-1.1}$
A_{217}^{PS}	119.5	107^{+30}_{-30}	σ_8	0.827	$0.845^{+0.050}_{-0.055}$	k_D	0.13986	$0.1397^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	1.83	—	z_{re}	11.8	$13.7^{+5.4}_{-6.0}$	$100\theta_D$	0.16116	$0.16112^{+0.00071}_{-0.00068}$
A_{217}^{CIB}	26	27^{+20}_{-10}	H_0	68.62	$69.1^{+2.5}_{-2.5}$	z_{eq}	3332	3307^{+120}_{-110}
A_{143}^{tSZ}	8.53	—	$10^9 A_s$	2.228	$2.35^{+0.30}_{-0.32}$	$100\theta_{\text{eq}}$	0.8266	$0.832^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.894	> 0.740	$\Omega_m h^2$	0.14007	$0.1391^{+0.0050}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07244	$0.0728^{+0.0019}_{-0.0019}$
$r_{143 \times 217}^{\text{CIB}}$	0.343	< 0.791	$\Omega_m h^3$	0.09612	$0.0961^{+0.0011}_{-0.0012}$			

Best-fit $\chi^2_{\text{eff}} = 7796.87$; R-1 = 0.01363

χ^2_{eff} : CMB - lowl: -7.82 CamSpec: 7799.27 Hubble - HST: 4.66

2.17 base_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02227^{+0.00065}_{-0.00063}$	γ^{CIB}	0.563	$0.53^{+0.24}_{-0.26}$	Y_P	0.247759	$0.24780^{+0.00027}_{-0.00027}$
$\Omega_c h^2$	0.1185	$0.1172^{+0.0056}_{-0.0054}$	\mathbf{c}_{100}	1.00057	$1.00059^{+0.00079}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8338	$1.824^{+0.027}_{-0.027}$
$100\theta_{\text{MC}}$	1.04151	$1.0416^{+0.0013}_{-0.0013}$	\mathbf{c}_{217}	0.99640	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.792	$13.77^{+0.11}_{-0.11}$
τ	0.095	$0.116^{+0.071}_{-0.078}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.13	$1089.9^{+1.2}_{-1.2}$
n_s	0.9666	$0.968^{+0.018}_{-0.017}$	\mathbf{A}^{kSZ}	0.0	—	r_*	144.95	$145.2^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.099	$3.13^{+0.13}_{-0.15}$	β_1^1	0.66	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04166	$1.0418^{+0.0013}_{-0.0013}$
A_{100}^{PS}	154	162^{+100}_{-100}	Ω_Λ	0.6937	$0.701^{+0.032}_{-0.035}$	z_{drag}	1059.47	$1059.6^{+1.3}_{-1.2}$
A_{143}^{PS}	66.4	52^{+30}_{-30}	Ω_m	0.3063	$0.299^{+0.035}_{-0.032}$	r_{drag}	147.69	$147.9^{+1.2}_{-1.2}$
A_{217}^{PS}	121.0	107^{+30}_{-30}	σ_8	0.830	$0.840^{+0.051}_{-0.055}$	k_D	0.13999	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.5	$12.9^{+5.7}_{-6.4}$	$100\theta_D$	0.16127	$0.16122^{+0.00072}_{-0.00072}$
A_{217}^{CIB}	25	28^{+20}_{-10}	H_0	67.93	$68.5^{+2.7}_{-2.6}$	z_{eq}	3362	3333^{+130}_{-120}
A_{143}^{tSZ}	5.97	—	$10^9 A_s$	2.218	$2.30^{+0.32}_{-0.32}$	$100\theta_{\text{eq}}$	0.8205	$0.826^{+0.024}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.911	> 0.740	$\Omega_m h^2$	0.1413	$0.1401^{+0.0053}_{-0.0051}$	$r_{\text{drag}}/D_V(0.57)$	0.07193	$0.0724^{+0.0021}_{-0.0020}$
$r_{143 \times 217}^{\text{CIB}}$	0.454	< 0.793	$\Omega_m h^3$	0.09601	$0.0960^{+0.0012}_{-0.0012}$			

Best-fit $\chi^2_{\text{eff}} = 8220.61$; R-1 = 0.00759

χ^2_{eff} : CMB - lowl: -7.50 CamSpec: 7798.56 SN - SNLS: 429.07

2.18 base_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.02214^{+0.00065}_{-0.00063}$	γ^{CIB}	0.526	$0.53^{+0.24}_{-0.25}$	Y_P	0.247743	$0.24774^{+0.00028}_{-0.00027}$
$\Omega_c h^2$	0.1192	$0.1188^{+0.0057}_{-0.0057}$	\mathbf{c}_{100}	1.00059	$1.00059^{+0.00079}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8352	$1.831^{+0.028}_{-0.028}$
$100\theta_{\text{MC}}$	1.04139	$1.0414^{+0.0013}_{-0.0013}$	\mathbf{c}_{217}	0.99634	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.802	$13.80^{+0.11}_{-0.11}$
τ	0.096	$0.103^{+0.072}_{-0.075}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.24	$1090.2^{+1.2}_{-1.2}$
n_s	0.9646	$0.964^{+0.019}_{-0.017}$	\mathbf{A}^{kSZ}	0.0	—	r_*	144.80	$144.9^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.102	$3.11^{+0.14}_{-0.14}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04154	$1.0416^{+0.0013}_{-0.0013}$
A_{100}^{PS}	134	167^{+100}_{-100}	Ω_Λ	0.6893	$0.691^{+0.034}_{-0.037}$	z_{drag}	1059.44	$1059.4^{+1.3}_{-1.2}$
A_{143}^{PS}	57.7	53^{+30}_{-30}	Ω_m	0.3107	$0.309^{+0.037}_{-0.034}$	r_{drag}	147.54	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	120.7	107^{+30}_{-30}	σ_8	0.833	$0.836^{+0.051}_{-0.053}$	k_D	0.14011	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	1.29	—	z_{re}	11.6	$12.0^{+6.0}_{-6.7}$	$100\theta_D$	0.16128	$0.16132^{+0.00073}_{-0.00072}$
A_{217}^{CIB}	26	28^{+20}_{-10}	H_0	67.60	$67.8^{+2.7}_{-2.6}$	z_{eq}	3378	3367^{+130}_{-130}
A_{143}^{tSZ}	8.54	—	$10^9 A_s$	2.225	$2.26^{+0.31}_{-0.32}$	$100\theta_{\text{eq}}$	0.8174	$0.820^{+0.025}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.890	> 0.737	$\Omega_m h^2$	0.1420	$0.1415^{+0.0054}_{-0.0053}$	$r_{\text{drag}}/D_V(0.57)$	0.07168	$0.0718^{+0.0021}_{-0.0019}$
$r_{143 \times 217}^{\text{CIB}}$	0.369	< 0.796	$\Omega_m h^3$	0.09601	$0.0959^{+0.0012}_{-0.0011}$			

Best-fit $\chi^2_{\text{eff}} = 7921.53$; R-1 = 0.00618

χ^2_{eff} : CMB - lowl: -7.12 CamSpec: 7797.46 SN - Union2.1: 130.43

2.19 base_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02254	$0.0226^{+0.0010}_{-0.00098}$	z_{re}	10.77	$10.7^{+2.3}_{-2.2}$	$100\theta_*$	1.04002	$1.0403^{+0.0044}_{-0.0045}$
$\Omega_c h^2$	0.1152	$0.1137^{+0.0090}_{-0.0089}$	H_0	68.87	$69.7^{+4.4}_{-4.2}$	z_{drag}	1060.09	$1060.2^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.03990	$1.0402^{+0.0044}_{-0.0045}$	$10^9 A_s$	2.218	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.16	$148.5^{+2.4}_{-2.3}$
τ	0.0888	$0.089^{+0.029}_{-0.028}$	$\Omega_m h^2$	0.1384	$0.1370^{+0.0087}_{-0.0087}$	k_D	0.13976	$0.1395^{+0.0027}_{-0.0027}$
n_s	0.9723	$0.974^{+0.026}_{-0.025}$	$\Omega_m h^3$	0.09533	$0.0954^{+0.0035}_{-0.0035}$	$100\theta_D$	0.16063	$0.1606^{+0.0010}_{-0.00098}$
$\ln(10^{10} A_s)$	3.099	$3.092^{+0.062}_{-0.059}$	Y_P	0.247913	$0.24796^{+0.00042}_{-0.00042}$	z_{eq}	3292	3257^{+210}_{-210}
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.857	$1.844^{+0.060}_{-0.060}$	$100\theta_{\text{eq}}$	0.8332	$0.841^{+0.043}_{-0.040}$
Ω_Λ	0.708	$0.717^{+0.052}_{-0.053}$	Age/Gyr	13.788	$13.76^{+0.22}_{-0.23}$	$r_{\text{drag}}/D_V(0.57)$	0.07262	$0.0733^{+0.0035}_{-0.0032}$
Ω_m	0.292	$0.283^{+0.053}_{-0.052}$	z_*	1089.39	$1089.1^{+1.6}_{-1.6}$			
σ_8	0.8169	$0.808^{+0.045}_{-0.046}$	r_*	145.53	$145.9^{+2.3}_{-2.2}$			

Best-fit $\chi^2_{\text{eff}} = 7557.87$; R-1 = 0.01345

χ^2_{eff} : CMB - WMAP: 7557.87

2.20 base_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02252	$0.02249^{+0.00086}_{-0.00087}$	z_{re}	10.77	$10.5^{+2.2}_{-2.2}$	$100\theta_*$	1.04006	$1.0397^{+0.0040}_{-0.0041}$
$\Omega_c h^2$	0.11629	$0.1160^{+0.0049}_{-0.0048}$	H_0	68.47	$68.5^{+1.9}_{-1.9}$	z_{drag}	1060.09	$1060.0^{+2.1}_{-2.2}$
$100\theta_{\text{MC}}$	1.03995	$1.0396^{+0.0040}_{-0.0041}$	$10^9 A_s$	2.220	$2.21^{+0.13}_{-0.12}$	r_{drag}	147.91	$148.0^{+1.8}_{-1.8}$
τ	0.0885	$0.086^{+0.026}_{-0.025}$	$\Omega_m h^2$	0.1395	$0.1391^{+0.0051}_{-0.0051}$	k_D	0.14001	$0.1399^{+0.0024}_{-0.0024}$
n_s	0.9697	$0.969^{+0.020}_{-0.021}$	$\Omega_m h^3$	0.09549	$0.0952^{+0.0036}_{-0.0035}$	$100\theta_D$	0.16064	$0.1606^{+0.0010}_{-0.00099}$
$\ln(10^{10} A_s)$	3.100	$3.093^{+0.059}_{-0.057}$	Y_P	0.247902	$0.24789^{+0.00036}_{-0.00037}$	z_{eq}	3317	3309^{+120}_{-120}
A_{tSZ}	0.83	—	$10^9 A_s e^{-2\tau}$	1.8598	$1.856^{+0.044}_{-0.045}$	$100\theta_{\text{eq}}$	0.8285	$0.830^{+0.021}_{-0.020}$
Ω_Λ	0.7026	$0.703^{+0.022}_{-0.023}$	Age/Gyr	13.795	$13.81^{+0.18}_{-0.18}$	$r_{\text{drag}}/D_V(0.57)$	0.07228	$0.0723^{+0.0014}_{-0.0014}$
Ω_m	0.2974	$0.297^{+0.023}_{-0.022}$	z_*	1089.51	$1089.5^{+1.1}_{-1.0}$			
σ_8	0.8204	$0.816^{+0.036}_{-0.036}$	r_*	145.27	$145.4^{+1.6}_{-1.6}$			

Best-fit $\chi^2_{\text{eff}} = 7559.51$; R-1 = 0.01177

χ^2_{eff} : BAO - 6DF: 0.07 DR7: 0.34 DR9: 0.88 CMB - WMAP: 7558.22

2.21 base_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02299	$0.02293^{+0.00093}_{-0.00091}$	z_{re}	11.15	$10.8^{+2.3}_{-2.2}$	$100\theta_*$	1.04152	$1.0414^{+0.0041}_{-0.0040}$
$\Omega_c h^2$	0.1106	$0.1103^{+0.0073}_{-0.0072}$	H_0	71.50	$71.6^{+3.3}_{-3.2}$	z_{drag}	1060.73	$1060.6^{+2.1}_{-2.2}$
$100\theta_{\text{MC}}$	1.04144	$1.0413^{+0.0041}_{-0.0041}$	$10^9 A_s$	2.221	$2.20^{+0.14}_{-0.14}$	r_{drag}	148.93	$149.1^{+2.3}_{-2.2}$
τ	0.0964	$0.093^{+0.029}_{-0.029}$	$\Omega_m h^2$	0.1343	$0.1339^{+0.0073}_{-0.0071}$	k_D	0.13928	$0.1391^{+0.0026}_{-0.0026}$
n_s	0.9826	$0.982^{+0.023}_{-0.022}$	$\Omega_m h^3$	0.09599	$0.0958^{+0.0035}_{-0.0034}$	$100\theta_D$	0.16045	$0.16053^{+0.00098}_{-0.0010}$
$\ln(10^{10} A_s)$	3.100	$3.091^{+0.064}_{-0.065}$	Y_P	0.248100	$0.24808^{+0.00038}_{-0.00039}$	z_{eq}	3193	3184^{+170}_{-170}
A_{tSZ}	1.15	—	$10^9 A_s e^{-2\tau}$	1.831	$1.827^{+0.055}_{-0.054}$	$100\theta_{\text{eq}}$	0.8552	$0.857^{+0.036}_{-0.034}$
Ω_Λ	0.7374	$0.738^{+0.033}_{-0.038}$	Age/Gyr	13.674	$13.68^{+0.19}_{-0.19}$	$r_{\text{drag}}/D_V(0.57)$	0.07461	$0.0747^{+0.0027}_{-0.0026}$
Ω_m	0.2626	$0.262^{+0.038}_{-0.033}$	z_*	1088.45	$1088.5^{+1.3}_{-1.3}$			
σ_8	0.8019	$0.797^{+0.043}_{-0.043}$	r_*	146.42	$146.6^{+2.1}_{-2.0}$			

Best-fit $\chi^2_{\text{eff}} = 7559.84$; R-1 = 0.01836

χ^2_{eff} : CMB - WMAP: 7558.86 Hubble - HST: 0.98

2.22 base_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02274	$0.0228^{+0.0010}_{-0.00097}$	z_{re}	11.00	$10.8^{+2.3}_{-2.3}$	$100\theta_*$	1.04072	$1.0409^{+0.0042}_{-0.0043}$
$\Omega_c h^2$	0.1120	$0.1111^{+0.0078}_{-0.0077}$	H_0	70.47	$71.0^{+3.8}_{-3.6}$	z_{drag}	1060.28	$1060.4^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04062	$1.0408^{+0.0042}_{-0.0044}$	$10^9 A_s$	2.217	$2.20^{+0.14}_{-0.14}$	r_{drag}	148.82	$149.0^{+2.2}_{-2.2}$
τ	0.0933	$0.091^{+0.029}_{-0.029}$	$\Omega_m h^2$	0.1354	$0.1345^{+0.0076}_{-0.0076}$	k_D	0.13922	$0.1391^{+0.0026}_{-0.0026}$
n_s	0.9784	$0.979^{+0.025}_{-0.024}$	$\Omega_m h^3$	0.09543	$0.0954^{+0.0035}_{-0.0034}$	$100\theta_D$	0.16059	$0.1606^{+0.0010}_{-0.00098}$
$\ln(10^{10} A_s)$	3.099	$3.089^{+0.065}_{-0.060}$	Y_P	0.247996	$0.24802^{+0.00042}_{-0.00041}$	z_{eq}	3220	3199^{+180}_{-180}
A_{tSZ}	0.23	—	$10^9 A_s e^{-2\tau}$	1.839	$1.830^{+0.055}_{-0.055}$	$100\theta_{\text{eq}}$	0.8482	$0.853^{+0.038}_{-0.036}$
Ω_Λ	0.7273	$0.732^{+0.039}_{-0.043}$	Age/Gyr	13.731	$13.71^{+0.22}_{-0.21}$	$r_{\text{drag}}/D_V(0.57)$	0.07388	$0.0743^{+0.0031}_{-0.0028}$
Ω_m	0.2727	$0.268^{+0.043}_{-0.039}$	z_*	1088.86	$1088.7^{+1.5}_{-1.5}$			
σ_8	0.8060	$0.798^{+0.043}_{-0.044}$	r_*	146.24	$146.5^{+2.1}_{-2.1}$			

Best-fit $\chi^2_{\text{eff}} = 7984.81$; R-1 = 0.01451

χ^2_{eff} : CMB - WMAP: 7558.15 SN - SNLS: 426.66

2.23 base_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02267	$0.0227^{+0.0010}_{-0.00096}$	z_{re}	10.99	$10.7^{+2.2}_{-2.2}$	$100\theta_*$	1.04041	$1.0404^{+0.0043}_{-0.0044}$
$\Omega_c h^2$	0.1139	$0.1133^{+0.0079}_{-0.0078}$	H_0	69.61	$69.8^{+3.9}_{-3.7}$	z_{drag}	1060.28	$1060.2^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04030	$1.0403^{+0.0044}_{-0.0045}$	$10^9 A_s$	2.219	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.39	$148.6^{+2.2}_{-2.2}$
τ	0.0923	$0.089^{+0.029}_{-0.026}$	$\Omega_m h^2$	0.1372	$0.1367^{+0.0077}_{-0.0077}$	k_D	0.13962	$0.1394^{+0.0026}_{-0.0025}$
n_s	0.9736	$0.974^{+0.025}_{-0.025}$	$\Omega_m h^3$	0.09550	$0.0954^{+0.0035}_{-0.0035}$	$100\theta_D$	0.16057	$0.1606^{+0.0010}_{-0.00098}$
$\ln(10^{10} A_s)$	3.100	$3.091^{+0.062}_{-0.060}$	Y_P	0.247967	$0.24796^{+0.00041}_{-0.00041}$	z_{eq}	3263	3250^{+180}_{-180}
A_{tSZ}	1.23	—	$10^9 A_s e^{-2\tau}$	1.845	$1.842^{+0.055}_{-0.056}$	$100\theta_{\text{eq}}$	0.8395	$0.842^{+0.038}_{-0.035}$
Ω_Λ	0.7169	$0.719^{+0.043}_{-0.046}$	Age/Gyr	13.757	$13.75^{+0.21}_{-0.21}$	$r_{\text{drag}}/D_V(0.57)$	0.07317	$0.0734^{+0.0031}_{-0.0028}$
Ω_m	0.2831	$0.281^{+0.046}_{-0.043}$	z_*	1089.11	$1089.1^{+1.5}_{-1.5}$			
σ_8	0.8122	$0.807^{+0.043}_{-0.043}$	r_*	145.80	$146.0^{+2.1}_{-2.1}$			

Best-fit $\chi^2_{\text{eff}} = 7688.00$; R-1 = 0.01070

χ^2_{eff} : CMB - WMAP: 7558.10 SN - Union2.1: 129.91

2.24 base_planck_tauprior

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02195	$0.02192^{+0.00055}_{-0.00054}$	γ^{CIB}	0.540	$0.54^{+0.23}_{-0.26}$	Y_P	0.247659	$0.24765^{+0.00024}_{-0.00024}$
$\Omega_c h^2$	0.1220	$0.1221^{+0.0057}_{-0.0055}$	\mathbf{c}_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8489	$1.847^{+0.028}_{-0.027}$
$100\theta_{\text{MC}}$	1.04105	$1.0411^{+0.0013}_{-0.0013}$	\mathbf{c}_{217}	0.99640	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.844	$13.846^{+0.095}_{-0.095}$
τ	0.0913	$0.093^{+0.025}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.74	$1090.8^{+1.1}_{-1.1}$
n_s	0.9554	$0.953^{+0.016}_{-0.016}$	\mathbf{A}^{kSZ}	0.9	—	r_*	144.22	$144.2^{+1.2}_{-1.3}$
$\ln(10^{10} A_s)$	3.0998	$3.101^{+0.049}_{-0.048}$	β_1^1	0.68	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04121	$1.0412^{+0.0012}_{-0.0013}$
A_{100}^{PS}	155	177^{+100}_{-100}	Ω_Λ	0.6715	$0.671^{+0.036}_{-0.038}$	z_{drag}	1059.17	$1059.1^{+1.1}_{-1.1}$
A_{143}^{PS}	59.5	55^{+30}_{-30}	Ω_m	0.3285	$0.329^{+0.038}_{-0.036}$	r_{drag}	147.02	$147.0^{+1.2}_{-1.2}$
A_{217}^{PS}	118.6	106^{+30}_{-30}	σ_8	0.8391	$0.839^{+0.027}_{-0.026}$	k_D	0.14051	$0.1405^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	3.11	—	z_{re}	11.34	$11.4^{+2.1}_{-2.2}$	$100\theta_D$	0.16142	$0.16147^{+0.00067}_{-0.00065}$
A_{217}^{CIB}	27	30^{+20}_{-10}	H_0	66.35	$66.3^{+2.4}_{-2.4}$	z_{eq}	3440	3441^{+130}_{-120}
A_{143}^{tSZ}	6.92	—	$10^9 A_s$	2.219	$2.22^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8055	$0.806^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.730	$\Omega_m h^2$	0.1446	$0.1446^{+0.0054}_{-0.0052}$	$r_{\text{drag}}/D_V(0.57)$	0.07073	$0.0707^{+0.0018}_{-0.0018}$
$r_{143 \times 217}^{\text{CIB}}$	0.300	< 0.805	$\Omega_m h^3$	0.09596	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi^2_{\text{eff}} = 7797.31$; R-1 = 0.00709

χ^2_{eff} : CMB - CamSpec: 7796.66

2.25 base_planck_tauprior_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02208	$0.02211^{+0.00053}_{-0.00052}$	γ^{CIB}	0.524	$0.53^{+0.24}_{-0.25}$	Y_P	0.247717	$0.24773^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11962	$0.1194^{+0.0043}_{-0.0041}$	c_{100}	1.00061	$1.00060^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8351	$1.834^{+0.021}_{-0.021}$
$100\theta_{\text{MC}}$	1.04129	$1.0413^{+0.0012}_{-0.0012}$	c_{217}	0.99630	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.813	$13.807^{+0.083}_{-0.087}$
τ	0.0870	$0.090^{+0.024}_{-0.023}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.35	$1090.30^{+0.93}_{-0.89}$
n_s	0.9585	$0.959^{+0.014}_{-0.014}$	A^{kSZ}	7.51	—	r_*	144.74	$144.78^{+0.93}_{-0.95}$
$\ln(10^{10} A_s)$	3.0838	$3.090^{+0.044}_{-0.043}$	β_1^1	0.60	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04144	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	127	175^{+100}_{-100}	Ω_Λ	0.6865	$0.688^{+0.025}_{-0.027}$	z_{drag}	1059.32	$1059.4^{+1.1}_{-1.1}$
A_{143}^{PS}	42	52^{+30}_{-30}	Ω_m	0.3135	$0.312^{+0.027}_{-0.025}$	r_{drag}	147.50	$147.54^{+0.97}_{-0.96}$
A_{217}^{PS}	106.2	103^{+30}_{-40}	σ_8	0.8257	$0.827^{+0.019}_{-0.019}$	k_D	0.14011	$0.1401^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	2.86	—	z_{re}	10.86	$11.1^{+1.9}_{-2.0}$	$100\theta_D$	0.16134	$0.16132^{+0.00064}_{-0.00064}$
A_{217}^{CIB}	26	30^{+20}_{-10}	H_0	67.38	$67.5^{+1.9}_{-1.9}$	z_{eq}	3386	3381^{+96}_{-92}
A_{143}^{tSZ}	8.28	—	$10^9 A_s$	2.184	$2.197^{+0.097}_{-0.093}$	$100\theta_{\text{eq}}$	0.8157	$0.817^{+0.018}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.883	> 0.716	$\Omega_m h^2$	0.14235	$0.1421^{+0.0040}_{-0.0039}$	$r_{\text{drag}}/D_V(0.57)$	0.07152	$0.0716^{+0.0015}_{-0.0014}$
$r_{143 \times 217}^{\text{CIB}}$	0.366	< 0.805	$\Omega_m h^3$	0.09591	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi^2_{\text{eff}} = 7808.59$; R-1 = 0.01313

χ^2_{eff} : CMB - lensing: 9.93 CamSpec: 7797.84

2.26 base_planck_tauprior_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02194	$0.02195^{+0.00053}_{-0.00053}$	$A_{148}^{\text{PS, ACT}}$	10.21	$10.5^{+1.2}_{-1.1}$	z_{re}	11.42	$11.5^{+2.0}_{-2.2}$
$\Omega_c h^2$	0.1225	$0.1222^{+0.0056}_{-0.0054}$	$A_{218}^{\text{PS, ACT}}$	75.2	77^{+9}_{-9}	H_0	66.17	$66.3^{+2.4}_{-2.4}$
$100\theta_{\text{MC}}$	1.04097	$1.0411^{+0.0013}_{-0.0013}$	$A_{95}^{\text{PS, SPT}}$	7.06	$7.64^{+2.9}_{-2.8}$	$10^9 A_s$	2.220	$2.23^{+0.11}_{-0.11}$
τ	0.0921	$0.094^{+0.025}_{-0.025}$	$A_{150}^{\text{PS, SPT}}$	9.67	$10.0^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.1450	$0.1448^{+0.0053}_{-0.0051}$
n_s	0.9506	$0.951^{+0.015}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	72.0	74^{+9}_{-9}	$\Omega_m h^3$	0.09598	$0.0960^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.1003	$3.103^{+0.048}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.812	> 0.683	Y_P	0.247654	$0.24766^{+0.00023}_{-0.00023}$
A_{100}^{PS}	207	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.565	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8468	$1.845^{+0.027}_{-0.026}$
A_{143}^{PS}	75.2	75^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9100	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.849	$13.843^{+0.094}_{-0.093}$
A_{217}^{PS}	61.6	61^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.415	$0.43^{+0.36}_{-0.39}$	z_*	1090.79	$1090.8^{+1.1}_{-1.0}$
A_{143}^{CIB}	3.35	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.848	$0.85^{+0.39}_{-0.39}$	r_*	144.12	$144.2^{+1.2}_{-1.2}$
A_{217}^{CIB}	53.2	50^{+10}_{-9}	y_{148}^{ACTs}	0.9900	$0.991^{+0.014}_{-0.014}$	$100\theta_*$	1.04114	$1.0412^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.84	< 4.97	y_{217}^{ACTs}	1.0003	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.17	$1059.2^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.832	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9864	$0.987^{+0.014}_{-0.014}$	r_{drag}	146.92	$147.0^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9594	$0.963^{+0.020}_{-0.020}$	k_D	0.14061	$0.1405^{+0.0013}_{-0.0013}$
γ^{CIB}	0.668	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9823	$0.982^{+0.040}_{-0.037}$	$100\theta_D$	0.16141	$0.16142^{+0.00065}_{-0.00062}$
c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9819	$0.986^{+0.019}_{-0.018}$	z_{eq}	3451	3444^{+130}_{-120}
c_{217}	0.99730	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0142	$1.023^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8037	$0.805^{+0.023}_{-0.023}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6687	$0.670^{+0.036}_{-0.037}$	$r_{\text{drag}}/D_V(0.57)$	0.07058	$0.0707^{+0.0018}_{-0.0018}$
A^{kSZ}	1.44	$5.41^{+3.9}_{-4.4}$	Ω_m	0.3313	$0.330^{+0.037}_{-0.036}$			
β_1^1	0.47	$0.4^{+1.1}_{-1.1}$	σ_8	0.8393	$0.839^{+0.026}_{-0.026}$			

Best-fit $\chi_{\text{eff}}^2 = 8499.95$; R-1 = 0.00676

χ_{eff}^2 : CMB - CamSpec: 7806.84 highL: 692.99

2.27 base_planck_tauprior_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022143	$0.02212^{+0.00049}_{-0.00050}$	$A_{148}^{\text{PS, ACT}}$	10.40	$10.7^{+1.1}_{-1.1}$	z_{re}	11.54	$11.2^{+1.9}_{-2.0}$
$\Omega_c h^2$	0.11935	$0.1195^{+0.0044}_{-0.0040}$	$A_{218}^{\text{PS, ACT}}$	76.4	$76.9^{+8.5}_{-9.0}$	H_0	67.54	$67.5^{+1.8}_{-1.9}$
$100\theta_{\text{MC}}$	1.04132	$1.0413^{+0.0012}_{-0.0012}$	$A_{95}^{\text{PS, SPT}}$	7.38	$7.87^{+3.0}_{-2.7}$	$10^9 A_s$	2.218	$2.201^{+0.096}_{-0.093}$
τ	0.0952	$0.091^{+0.023}_{-0.024}$	$A_{150}^{\text{PS, SPT}}$	9.92	$10.2^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14214	$0.1423^{+0.0041}_{-0.0040}$
n_s	0.9583	$0.957^{+0.012}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	73.4	74^{+9}_{-9}	$\Omega_m h^3$	0.09600	$0.0960^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.0992	$3.091^{+0.043}_{-0.043}$	$r_{95 \times 150}^{\text{PS}}$	0.807	> 0.685	Y_{P}	0.247743	$0.24773^{+0.00021}_{-0.00022}$
A_{100}^{PS}	209	217^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.554	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.834^{+0.021}_{-0.020}$
A_{143}^{PS}	74.0	74^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9071	$0.933^{+0.048}_{-0.043}$	Age/Gyr	13.805	$13.807^{+0.083}_{-0.080}$
A_{217}^{PS}	61.4	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.422	$0.43^{+0.36}_{-0.38}$	z_*	1090.25	$1090.30^{+0.89}_{-0.84}$
A_{143}^{CIB}	3.32	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.848	$0.84^{+0.40}_{-0.38}$	r_*	144.76	$144.73^{+0.98}_{-0.99}$
A_{217}^{CIB}	52.3	50^{+10}_{-10}	y_{148}^{ACTs}	0.9911	$0.992^{+0.015}_{-0.014}$	$100\theta_*$	1.04147	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.75	< 4.82	y_{217}^{ACTs}	1.0025	$1.006^{+0.026}_{-0.025}$	z_{drag}	1059.44	$1059.4^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.821	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9872	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.51	$147.49^{+0.96}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9609	$0.964^{+0.021}_{-0.020}$	k_{D}	0.14015	$0.1402^{+0.0011}_{-0.0011}$
γ^{CIB}	0.652	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9845	$0.984^{+0.041}_{-0.037}$	$100\theta_{\text{D}}$	0.16127	$0.16130^{+0.00060}_{-0.00060}$
c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00077}$	y_{150}^{SPT}	0.9851	$0.988^{+0.019}_{-0.018}$	z_{eq}	3381	3385^{+98}_{-95}
c_{217}	0.99728	$0.9973^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0177	$1.025^{+0.045}_{-0.042}$	$100\theta_{\text{eq}}$	0.8168	$0.816^{+0.018}_{-0.018}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.823	Ω_{Λ}	0.6884	$0.687^{+0.026}_{-0.027}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07162	$0.0716^{+0.0014}_{-0.0015}$
A^{kSZ}	0.98	$4.77^{+3.7}_{-4.1}$	Ω_{m}	0.3116	$0.313^{+0.027}_{-0.026}$			
β_1^1	0.43	$0.4^{+1.1}_{-1.1}$	σ_8	0.8309	$0.827^{+0.019}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 8509.56$; R-1 = 0.03378

χ_{eff}^2 : CMB - lensing: 10.15 CamSpec: 7807.69 highL: 691.43

3 Alens

3.1 base_Alens_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02254	$0.02245^{+0.00072}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.174	< 0.772	$\Omega_m h^3$	0.09648	$0.0963^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1165	$0.1168^{+0.0059}_{-0.0058}$	γ^{CIB}	0.539	$0.53^{+0.24}_{-0.25}$	Y_P	0.247914	$0.24787^{+0.00030}_{-0.00030}$
$100\theta_{\text{MC}}$	1.04187	$1.0418^{+0.0014}_{-0.0013}$	c_{100}	1.00061	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8264	$1.824^{+0.027}_{-0.026}$
τ	0.0834	$0.087^{+0.027}_{-0.025}$	c_{217}	0.99624	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.736	$13.75^{+0.12}_{-0.12}$
A_L	1.252	$1.22^{+0.25}_{-0.22}$	$\xi^{\text{tSZ-CIB}}$	0.27	—	z_*	1089.49	$1089.6^{+1.3}_{-1.3}$
n_s	0.9724	$0.969^{+0.017}_{-0.017}$	A^{kSZ}	0.0	—	r_*	145.20	$145.2^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.0718	$3.077^{+0.051}_{-0.048}$	β_1^1	0.50	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04198	$1.0419^{+0.0013}_{-0.0013}$
A_{100}^{PS}	121	155^{+100}_{-100}	Ω_Λ	0.7073	$0.705^{+0.034}_{-0.037}$	z_{drag}	1060.16	$1060.0^{+1.3}_{-1.4}$
A_{143}^{PS}	55.0	50^{+20}_{-20}	Ω_m	0.2927	$0.295^{+0.037}_{-0.034}$	r_{drag}	147.82	$147.8^{+1.2}_{-1.2}$
A_{217}^{PS}	121.0	107^{+30}_{-30}	σ_8	0.8120	$0.814^{+0.028}_{-0.028}$	k_D	0.14012	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	10.33	$10.6^{+2.2}_{-2.2}$	$100\theta_D$	0.16089	$0.16101^{+0.00077}_{-0.00073}$
A_{217}^{CIB}	23	27^{+10}_{-10}	H_0	69.07	$68.9^{+2.9}_{-2.8}$	z_{eq}	3322	3328^{+130}_{-130}
A_{143}^{tSZ}	7.27	—	$10^9 A_s$	2.158	$2.17^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8291	$0.828^{+0.026}_{-0.026}$
$r_{143 \times 217}^{\text{PS}}$	0.950	> 0.740	$\Omega_m h^2$	0.1397	$0.1399^{+0.0055}_{-0.0053}$	$r_{\text{drag}}/D_V(0.57)$	0.07270	$0.0726^{+0.0022}_{-0.0021}$

Best-fit $\chi_{\text{eff}}^2 = 9800.63$; R-1 = 0.00843

χ_{eff}^2 : CMB - lowLike: 2014.32 lowl: -8.66 CamSpec: 7794.32

3.2 base_Alens_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02237	$0.02233^{+0.00066}_{-0.00065}$	$r_{143 \times 217}^{\text{CIB}}$	0.30	—	$\Omega_m h^3$	0.09609	$0.0960^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1165	$0.1165^{+0.0058}_{-0.0055}$	γ^{CIB}	0.540	$0.53^{+0.25}_{-0.25}$	Y_P	0.247839	$0.24782^{+0.00028}_{-0.00028}$
$100\theta_{\text{MC}}$	1.04169	$1.0417^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8239	$1.821^{+0.027}_{-0.028}$
τ	0.0798	$0.087^{+0.024}_{-0.025}$	c_{217}	0.99619	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.759	$13.76^{+0.11}_{-0.11}$
A_L	1.076	$1.07^{+0.14}_{-0.14}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.72	$1089.8^{+1.2}_{-1.2}$
n_s	0.9695	$0.969^{+0.016}_{-0.016}$	A^{kSZ}	0.7	—	r_*	145.33	$145.4^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.0631	$3.076^{+0.047}_{-0.047}$	β_1^1	0.50	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04183	$1.0418^{+0.0013}_{-0.0013}$
A_{100}^{PS}	148	166^{+100}_{-100}	Ω_Λ	0.7057	$0.705^{+0.034}_{-0.037}$	z_{drag}	1059.74	$1059.7^{+1.2}_{-1.3}$
A_{143}^{PS}	50.1	50^{+30}_{-30}	Ω_m	0.2943	$0.295^{+0.037}_{-0.034}$	r_{drag}	148.01	$148.1^{+1.2}_{-1.2}$
A_{217}^{PS}	114.9	103^{+30}_{-30}	σ_8	0.8091	$0.813^{+0.028}_{-0.028}$	k_D	0.13980	$0.1397^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	4.65	—	z_{re}	10.06	$10.7^{+2.1}_{-2.1}$	$100\theta_D$	0.16110	$0.16116^{+0.00072}_{-0.00072}$
A_{217}^{CIB}	26.7	29^{+20}_{-10}	H_0	68.86	$68.9^{+2.7}_{-2.7}$	z_{eq}	3319	3318^{+130}_{-120}
A_{143}^{tSZ}	7.05	—	$10^9 A_s$	2.139	$2.17^{+0.10}_{-0.11}$	$100\theta_{\text{eq}}$	0.8291	$0.829^{+0.025}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.897	> 0.715	$\Omega_m h^2$	0.1395	$0.1395^{+0.0055}_{-0.0052}$	$r_{\text{drag}}/D_V(0.57)$	0.07262	$0.0726^{+0.0021}_{-0.0021}$

Best-fit $\chi_{\text{eff}}^2 = 9814.93$; R-1 = 0.05928

χ_{eff}^2 : CMB - lowLike: 2014.63 lensing: 9.74 lowl: -8.49 CamSpec: 7798.41

3.3 base_Alens_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02247	$0.02237^{+0.00055}_{-0.00056}$	$r_{143 \times 217}^{\text{CIB}}$	0.346	< 0.772	$\Omega_m h^3$	0.09646	$0.0963^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.11754	$0.1176^{+0.0036}_{-0.0034}$	γ^{CIB}	0.533	$0.53^{+0.24}_{-0.26}$	Y_P	0.247882	$0.24784^{+0.00023}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04172	$1.0417^{+0.0011}_{-0.0011}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8305	$1.828^{+0.019}_{-0.018}$
τ	0.0838	$0.086^{+0.025}_{-0.024}$	c_{217}	0.99618	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.753	$13.764^{+0.084}_{-0.083}$
A_L	1.230	$1.20^{+0.21}_{-0.20}$	$\xi^{\text{tSZ-CIB}}$	0.03	—	z_*	1089.68	$1089.81^{+0.88}_{-0.86}$
n_s	0.9699	$0.967^{+0.012}_{-0.012}$	A^{kSZ}	0.0	—	r_*	144.98	$145.03^{+0.82}_{-0.83}$
$\ln(10^{10} A_s)$	3.0747	$3.077^{+0.050}_{-0.048}$	β_1^1	0.62	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04183	$1.0418^{+0.0011}_{-0.0011}$
A_{100}^{PS}	114	157^{+100}_{-100}	Ω_Λ	0.7010	$0.700^{+0.020}_{-0.022}$	z_{drag}	1060.09	$1059.8^{+1.2}_{-1.2}$
A_{143}^{PS}	51.4	50^{+20}_{-20}	Ω_m	0.2990	$0.300^{+0.022}_{-0.020}$	r_{drag}	147.62	$147.71^{+0.88}_{-0.87}$
A_{217}^{PS}	122.0	107^{+30}_{-30}	σ_8	0.8163	$0.817^{+0.024}_{-0.023}$	k_D	0.14028	$0.1401^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	0.0	—	z_{re}	10.40	$10.6^{+2.1}_{-2.2}$	$100\theta_D$	0.16093	$0.16106^{+0.00070}_{-0.00066}$
A_{217}^{CIB}	23	27^{+10}_{-10}	H_0	68.58	$68.5^{+1.7}_{-1.7}$	z_{eq}	3345	3346^{+80}_{-77}
A_{143}^{tSZ}	8.92	—	$10^9 A_s$	2.164	$2.17^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8245	$0.824^{+0.015}_{-0.015}$
$r_{143 \times 217}^{\text{PS}}$	0.925	> 0.741	$\Omega_m h^2$	0.14065	$0.1407^{+0.0033}_{-0.0032}$	$r_{\text{drag}}/D_V(0.57)$	0.07232	$0.0723^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9802.10$; R-1 = 0.00882

χ_{eff}^2 : BAO - DR9: 0.93 DR7: 0.33 6DF: 0.08 CMB - lowLike: 2014.31 lowl: -8.39 CamSpec: 7794.15

3.4 base_Alens_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02266	$0.02272^{+0.00065}_{-0.00065}$	$r_{143 \times 217}^{\text{CIB}}$	0.567	< 0.772	$\Omega_m h^3$	0.09654	$0.0965^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1150	$0.1142^{+0.0051}_{-0.0051}$	γ^{CIB}	0.517	$0.53^{+0.24}_{-0.25}$	Y_P	0.247963	$0.24799^{+0.00027}_{-0.00027}$
$100\theta_{\text{MC}}$	1.04210	$1.0423^{+0.0013}_{-0.0013}$	c_{100}	1.00061	$1.00060^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8201	$1.814^{+0.024}_{-0.023}$
τ	0.0980	$0.090^{+0.027}_{-0.027}$	c_{217}	0.99631	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.710	$13.70^{+0.11}_{-0.11}$
A_L	1.244	$1.28^{+0.24}_{-0.22}$	$\xi^{\text{tSZ-CIB}}$	0.21	—	z_*	1089.22	$1089.1^{+1.1}_{-1.1}$
n_s	0.9762	$0.976^{+0.015}_{-0.015}$	A^{kSZ}	0.0	—	r_*	145.50	$145.7^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.097	$3.077^{+0.054}_{-0.049}$	β_1^1	0.44	$0.3^{+1.1}_{-1.1}$	$100\theta_*$	1.04221	$1.0424^{+0.0012}_{-0.0012}$
A_{100}^{PS}	132	150^{+100}_{-100}	Ω_Λ	0.7160	$0.721^{+0.028}_{-0.030}$	z_{drag}	1060.31	$1060.4^{+1.3}_{-1.3}$
A_{143}^{PS}	57.8	47^{+20}_{-20}	Ω_m	0.2840	$0.279^{+0.030}_{-0.028}$	r_{drag}	148.09	$148.3^{+1.1}_{-1.1}$
A_{217}^{PS}	119.0	106^{+30}_{-30}	σ_8	0.8180	$0.806^{+0.028}_{-0.028}$	k_D	0.13993	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	< 16.7	z_{re}	11.50	$10.7^{+2.2}_{-2.2}$	$100\theta_D$	0.16082	$0.16080^{+0.00071}_{-0.00067}$
A_{217}^{CIB}	23	26^{+10}_{-10}	H_0	69.79	$70.2^{+2.6}_{-2.5}$	z_{eq}	3290	3271^{+110}_{-110}
A_{143}^{tSZ}	6.09	—	$10^9 A_s$	2.214	$2.17^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8357	$0.840^{+0.024}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.901	> 0.737	$\Omega_m h^2$	0.13833	$0.1375^{+0.0047}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07325	$0.0736^{+0.0020}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 9804.19$; R-1 = 0.01494

χ_{eff}^2 : CMB - lowLike: 2014.36 lowl: -8.63 CamSpec: 7794.80 Hubble - HST: 2.83

3.5 base_Alens_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02273	$0.02261^{+0.00068}_{-0.00067}$	$r_{143 \times 217}^{\text{CIB}}$	0.093	< 0.775	$\Omega_m h^3$	0.09662	$0.0964^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1147	$0.1150^{+0.0054}_{-0.0053}$	γ^{CIB}	0.533	$0.53^{+0.24}_{-0.25}$	Y_P	0.247990	$0.24794^{+0.00028}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04215	$1.0421^{+0.0013}_{-0.0013}$	c_{100}	1.00061	$1.00060^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8189	$1.817^{+0.025}_{-0.025}$
τ	0.0973	$0.089^{+0.027}_{-0.027}$	c_{217}	0.99619	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.700	$13.72^{+0.11}_{-0.12}$
A_L	1.271	$1.26^{+0.24}_{-0.22}$	$\xi^{\text{tSZ-CIB}}$	0.27	—	z_*	1089.12	$1089.3^{+1.2}_{-1.2}$
n_s	0.9776	$0.974^{+0.016}_{-0.016}$	A^{kSZ}	0.0	—	r_*	145.54	$145.5^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.095	$3.077^{+0.053}_{-0.049}$	β_1^1	0.47	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04225	$1.0422^{+0.0013}_{-0.0013}$
A_{100}^{PS}	108	152^{+100}_{-100}	Ω_Λ	0.7181	$0.715^{+0.030}_{-0.033}$	z_{drag}	1060.47	$1060.2^{+1.3}_{-1.3}$
A_{143}^{PS}	50.6	48^{+20}_{-20}	Ω_m	0.2819	$0.285^{+0.033}_{-0.030}$	r_{drag}	148.11	$148.1^{+1.1}_{-1.1}$
A_{217}^{PS}	120.7	106^{+30}_{-30}	σ_8	0.8161	$0.809^{+0.027}_{-0.028}$	k_D	0.13996	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	< 16.9	z_{re}	11.41	$10.7^{+2.2}_{-2.2}$	$100\theta_D$	0.16075	$0.16089^{+0.00074}_{-0.00070}$
A_{217}^{CIB}	22	27^{+10}_{-10}	H_0	69.98	$69.7^{+2.7}_{-2.6}$	z_{eq}	3283	3289^{+120}_{-120}
A_{143}^{tSZ}	7.94	—	$10^9 A_s$	2.210	$2.17^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8372	$0.836^{+0.025}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.958	> 0.738	$\Omega_m h^2$	0.13806	$0.1383^{+0.0050}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07338	$0.0732^{+0.0021}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 10228.44$; R-1 = 0.01229

χ_{eff}^2 : CMB - lowLike: 2014.27 lowl: -8.76 CamSpec: 7795.03 SN - SNLS: 427.21

3.6 base_Alens_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02260	$0.02249^{+0.00069}_{-0.00067}$	$r_{143 \times 217}^{\text{CIB}}$	0.000	< 0.775	$\Omega_m h^3$	0.09652	$0.0964^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1160	$0.1164^{+0.0056}_{-0.0054}$	γ^{CIB}	0.543	$0.53^{+0.24}_{-0.25}$	Y_P	0.247937	$0.24789^{+0.00029}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04192	$1.0419^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8241	$1.823^{+0.026}_{-0.025}$
τ	0.0971	$0.087^{+0.027}_{-0.025}$	c_{217}	0.99617	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.726	$13.74^{+0.11}_{-0.12}$
A_L	1.235	$1.23^{+0.24}_{-0.22}$	$\xi^{\text{tSZ-CIB}}$	0.62	—	z_*	1089.39	$1089.6^{+1.2}_{-1.2}$
n_s	0.9744	$0.970^{+0.016}_{-0.016}$	A^{kSZ}	0.0	—	r_*	145.29	$145.3^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.098	$3.077^{+0.052}_{-0.048}$	β_1^1	0.48	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04204	$1.0420^{+0.0013}_{-0.0013}$
A_{100}^{PS}	134	155^{+100}_{-100}	Ω_Λ	0.7103	$0.707^{+0.032}_{-0.035}$	z_{drag}	1060.24	$1060.0^{+1.3}_{-1.4}$
A_{143}^{PS}	58.9	49^{+30}_{-20}	Ω_m	0.2897	$0.293^{+0.035}_{-0.032}$	r_{drag}	147.90	$147.9^{+1.1}_{-1.1}$
A_{217}^{PS}	122.9	107^{+30}_{-30}	σ_8	0.8213	$0.813^{+0.027}_{-0.027}$	k_D	0.14009	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	1.99	—	z_{re}	11.47	$10.6^{+2.2}_{-2.2}$	$100\theta_D$	0.16084	$0.16098^{+0.00076}_{-0.00071}$
A_{217}^{CIB}	22	27^{+10}_{-10}	H_0	69.32	$69.1^{+2.7}_{-2.7}$	z_{eq}	3312	3318^{+120}_{-120}
A_{143}^{tSZ}	5.83	—	$10^9 A_s$	2.215	$2.17^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8313	$0.830^{+0.025}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.963	> 0.739	$\Omega_m h^2$	0.1392	$0.1395^{+0.0051}_{-0.0050}$	$r_{\text{drag}}/D_V(0.57)$	0.07288	$0.0728^{+0.0021}_{-0.0020}$

Best-fit $\chi_{\text{eff}}^2 = 9930.95$; R-1 = 0.00981

χ_{eff}^2 : CMB - lowLike: 2014.38 lowl: -8.49 CamSpec: 7794.47 SN - Union2.1: 129.98

3.7 base_Alens_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02240	$0.02248^{+0.00066}_{-0.00064}$	β_1^1	0.33	$0.2^{+1.1}_{-1.1}$	σ_8	0.8257	$0.811^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1175	$0.1165^{+0.0057}_{-0.0057}$	$A_{148}^{\text{PS, ACT}}$	10.46	$10.6^{+1.2}_{-1.1}$	z_{re}	11.66	$10.6^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04174	$1.0419^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.4	77^{+9}_{-9}	H_0	68.55	$69.0^{+2.8}_{-2.7}$
τ	0.0981	$0.086^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.61	$7.93^{+3.1}_{-2.9}$	$10^9 A_s$	2.221	$2.16^{+0.11}_{-0.10}$
A_L	1.184	$1.23^{+0.22}_{-0.21}$	$A_{150}^{\text{PS, SPT}}$	10.03	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1406	$0.1396^{+0.0053}_{-0.0053}$
n_s	0.9655	$0.967^{+0.016}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	73.4	75^{+9}_{-9}	$\Omega_m h^3$	0.09635	$0.0963^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.1003	$3.074^{+0.050}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.799	> 0.683	Y_P	0.247854	$0.24788^{+0.00028}_{-0.00027}$
A_{100}^{PS}	194	201^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.547	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8248	$1.820^{+0.026}_{-0.026}$
A_{143}^{PS}	68.1	67^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9076	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.758	$13.74^{+0.11}_{-0.11}$
A_{217}^{PS}	56.0	54^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.43^{+0.36}_{-0.39}$	z_*	1089.76	$1089.6^{+1.2}_{-1.2}$
A_{143}^{CIB}	3.25	$3.28^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.84^{+0.39}_{-0.39}$	r_*	145.04	$145.3^{+1.2}_{-1.2}$
A_{217}^{CIB}	53.0	51^{+10}_{-10}	y_{148}^{ACTs}	0.9935	$0.995^{+0.015}_{-0.014}$	$100\theta_*$	1.04188	$1.0420^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.67	< 5.19	y_{217}^{ACTs}	1.0058	$1.009^{+0.027}_{-0.026}$	z_{drag}	1059.89	$1060.0^{+1.3}_{-1.3}$
$r_{143 \times 217}^{\text{PS}}$	0.804	$0.81^{+0.15}_{-0.15}$	y_{148}^{ACTe}	0.9900	$0.991^{+0.014}_{-0.014}$	r_{drag}	147.71	$147.9^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.840	y_{217}^{ACTe}	0.9636	$0.967^{+0.021}_{-0.020}$	k_D	0.14014	$0.1400^{+0.0012}_{-0.0012}$
γ^{CIB}	0.671	$0.66^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9885	$0.989^{+0.040}_{-0.038}$	$100\theta_D$	0.16103	$0.16099^{+0.00070}_{-0.00068}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00077}$	y_{150}^{SPT}	0.9894	$0.993^{+0.020}_{-0.019}$	z_{eq}	3343	3320^{+130}_{-130}
c_{217}	0.99732	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0200	$1.028^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8248	$0.830^{+0.026}_{-0.025}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.797	Ω_Λ	0.7009	$0.707^{+0.035}_{-0.035}$	$r_{\text{drag}}/D_V(0.57)$	0.07233	$0.0727^{+0.0021}_{-0.0020}$
A^{kSZ}	1.23	< 8.01	Ω_m	0.2991	$0.293^{+0.035}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10504.99$; R-1 = 0.00568

χ_{eff}^2 : CMB - lowLike: 2014.67 lowl: -7.21 CamSpec: 7807.97 highL: 689.49

3.8 base_Alens_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02236	$0.02239^{+0.00060}_{-0.00065}$	β_1^1	0.28	$0.3^{+1.2}_{-1.0}$	σ_8	0.8043	$0.810^{+0.029}_{-0.029}$
$\Omega_c h^2$	0.1164	$0.1162^{+0.0060}_{-0.0055}$	$A_{148}^{\text{PS, ACT}}$	10.48	$10.7^{+1.3}_{-1.3}$	z_{re}	9.80	$10.6^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04173	$1.0417^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.7	$77.0^{+8.5}_{-9.4}$	H_0	68.91	$69.0^{+2.8}_{-3.0}$
τ	0.0769	$0.086^{+0.025}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.73	$7.88^{+3.2}_{-2.9}$	$10^9 A_s$	2.122	$2.16^{+0.11}_{-0.10}$
A_L	1.097	$1.08^{+0.15}_{-0.13}$	$A_{150}^{\text{PS, SPT}}$	10.05	$10.3^{+1.0}_{-1.1}$	$\Omega_m h^2$	0.1394	$0.1392^{+0.0055}_{-0.0051}$
n_s	0.9660	$0.967^{+0.017}_{-0.016}$	$A_{220}^{\text{PS, SPT}}$	73.7	75^{+10}_{-10}	$\Omega_m h^3$	0.09605	$0.0961^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.055	$3.073^{+0.051}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.785	> 0.689	Y_P	0.247834	$0.24785^{+0.00025}_{-0.00028}$
A_{100}^{PS}	203	210^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.530	$0.58^{+0.22}_{-0.21}$	$10^9 A_s e^{-2\tau}$	1.8194	$1.818^{+0.029}_{-0.026}$
A_{143}^{PS}	71.8	70^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9085	$0.934^{+0.046}_{-0.047}$	Age/Gyr	13.758	$13.75^{+0.12}_{-0.11}$
A_{217}^{PS}	58.9	56^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.423	$0.44^{+0.34}_{-0.35}$	z_*	1089.72	$1089.7^{+1.3}_{-1.1}$
A_{143}^{CIB}	3.08	$3.29^{+1.6}_{-1.7}$	$A_{\text{dust}}^{\text{ACTe}}$	0.840	$0.83^{+0.37}_{-0.39}$	r_*	145.38	$145.4^{+1.3}_{-1.3}$
A_{217}^{CIB}	52.1	50^{+10}_{-10}	y_{148}^{ACTs}	0.9921	$0.994^{+0.016}_{-0.016}$	$100\theta_*$	1.04187	$1.0419^{+0.0012}_{-0.0013}$
A_{143}^{tSZ}	4.31	< 5.20	y_{217}^{ACTs}	1.0046	$1.008^{+0.028}_{-0.030}$	z_{drag}	1059.70	$1059.8^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.814	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9884	$0.990^{+0.015}_{-0.014}$	r_{drag}	148.07	$148.1^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.846	y_{217}^{ACTe}	0.9630	$0.966^{+0.019}_{-0.019}$	k_D	0.13973	$0.1397^{+0.0011}_{-0.0012}$
γ^{CIB}	0.656	$0.65^{+0.17}_{-0.17}$	y_{95}^{SPT}	0.9860	$0.988^{+0.040}_{-0.039}$	$100\theta_D$	0.16113	$0.16110^{+0.00075}_{-0.00063}$
c_{100}	1.00060	$1.00059^{+0.00077}_{-0.00083}$	y_{150}^{SPT}	0.9873	$0.992^{+0.019}_{-0.020}$	z_{eq}	3315	3312^{+130}_{-120}
c_{217}	0.99719	$0.9973^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0194	$1.026^{+0.043}_{-0.043}$	$100\theta_{\text{eq}}$	0.8298	$0.831^{+0.025}_{-0.026}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.7065	$0.707^{+0.035}_{-0.037}$	$r_{\text{drag}}/D_V(0.57)$	0.07268	$0.0728^{+0.0021}_{-0.0022}$
A^{kSZ}	1.61	$4.40^{+3.6}_{-4.4}$	Ω_m	0.2935	$0.293^{+0.037}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10516.36$; R-1 = 0.14209

χ_{eff}^2 : CMB - lowLike: 2014.94 lensing: 9.68 lowl: -8.22 CamSpec: 7809.51 highL: 690.35

3.9 base_Alens_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02240	$0.02239^{+0.00053}_{-0.00051}$	β_1^1	0.31	$0.3^{+1.1}_{-1.1}$	σ_8	0.8250	$0.815^{+0.024}_{-0.023}$
$\Omega_c h^2$	0.11755	$0.1175^{+0.0035}_{-0.0035}$	$A_{148}^{\text{PS, ACT}}$	10.44	$10.6^{+1.2}_{-1.1}$	z_{re}	11.57	$10.5^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04171	$1.0417^{+0.0011}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	H_0	68.52	$68.5^{+1.6}_{-1.6}$
τ	0.0971	$0.085^{+0.025}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.46	$7.89^{+3.1}_{-2.9}$	$10^9 A_s$	2.216	$2.16^{+0.11}_{-0.10}$
A_L	1.188	$1.21^{+0.19}_{-0.19}$	$A_{150}^{\text{PS, SPT}}$	10.00	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14060	$0.1406^{+0.0033}_{-0.0033}$
n_s	0.9654	$0.964^{+0.011}_{-0.011}$	$A_{220}^{\text{PS, SPT}}$	73.2	75^{+9}_{-9}	$\Omega_m h^3$	0.09633	$0.0963^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.0984	$3.074^{+0.050}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.810	> 0.684	Y_P	0.247852	$0.24785^{+0.00023}_{-0.00022}$
A_{100}^{PS}	191	202^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.562	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8250	$1.824^{+0.018}_{-0.018}$
A_{143}^{PS}	67.5	68^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9077	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.760	$13.761^{+0.078}_{-0.080}$
A_{217}^{PS}	56.3	55^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.420	$0.43^{+0.37}_{-0.39}$	z_*	1089.77	$1089.78^{+0.82}_{-0.83}$
A_{143}^{CIB}	3.39	$3.27^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.84^{+0.39}_{-0.39}$	r_*	145.03	$145.05^{+0.83}_{-0.82}$
A_{217}^{CIB}	53.2	50^{+10}_{-10}	y_{148}^{ACTs}	0.9936	$0.994^{+0.014}_{-0.014}$	$100\theta_*$	1.04184	$1.0418^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.98	< 5.19	y_{217}^{ACTs}	1.0052	$1.008^{+0.027}_{-0.026}$	z_{drag}	1059.89	$1059.9^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.808	$0.81^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9900	$0.991^{+0.014}_{-0.014}$	r_{drag}	147.70	$147.72^{+0.87}_{-0.86}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.839	y_{217}^{ACTe}	0.9633	$0.966^{+0.021}_{-0.020}$	k_D	0.14014	$0.1401^{+0.0011}_{-0.0011}$
γ^{CIB}	0.671	$0.65^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9884	$0.989^{+0.041}_{-0.038}$	$100\theta_D$	0.16103	$0.16105^{+0.00063}_{-0.00063}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9895	$0.992^{+0.019}_{-0.019}$	z_{eq}	3344	3343^{+79}_{-78}
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0202	$1.027^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8245	$0.825^{+0.015}_{-0.015}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.800	Ω_Λ	0.7005	$0.700^{+0.020}_{-0.021}$	$r_{\text{drag}}/D_V(0.57)$	0.07231	$0.0723^{+0.0012}_{-0.0012}$
A^{kSZ}	0.79	$4.57^{+3.7}_{-4.5}$	Ω_m	0.2995	$0.300^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10506.20$; R-1 = 0.00873

χ_{eff}^2 : BAO - DR7: 0.34 DR9: 0.91 6DF: 0.07 CMB - lowLike: 2014.57 lowl: -7.26 CamSpec: 7807.76 highL: 689.73

3.10 base_Alens_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02270	$0.02270^{+0.00061}_{-0.00060}$	β_1	0.22	$0.2^{+1.1}_{-1.1}$	σ_8	0.8153	$0.803^{+0.027}_{-0.026}$
$\Omega_c h^2$	0.1143	$0.1140^{+0.0051}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.50	$10.7^{+1.2}_{-1.1}$	z_{re}	11.75	$10.6^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04225	$1.0423^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.5	$77.2^{+8.6}_{-9.4}$	H_0	70.13	$70.3^{+2.5}_{-2.4}$
τ	0.1015	$0.089^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.58	$8.00^{+3.2}_{-3.0}$	$10^9 A_s$	2.219	$2.16^{+0.11}_{-0.10}$
A_L	1.258	$1.29^{+0.23}_{-0.21}$	$A_{150}^{\text{PS, SPT}}$	10.11	$10.4^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.13766	$0.1374^{+0.0047}_{-0.0046}$
n_s	0.9735	$0.973^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	73.4	75^{+9}_{-9}	$\Omega_m h^3$	0.09654	$0.0965^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.073^{+0.052}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.807	> 0.682	Y_P	0.247979	$0.24798^{+0.00025}_{-0.00025}$
A_{100}^{PS}	186	196^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.559	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8117	$1.810^{+0.024}_{-0.023}$
A_{143}^{PS}	64.4	65^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9079	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.698	$13.70^{+0.10}_{-0.10}$
A_{217}^{PS}	52.8	52^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.418	$0.43^{+0.36}_{-0.39}$	z_*	1089.11	$1089.1^{+1.1}_{-1.0}$
A_{143}^{CIB}	3.36	$3.29^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.839	$0.84^{+0.39}_{-0.39}$	r_*	145.66	$145.7^{+1.1}_{-1.1}$
A_{217}^{CIB}	53.7	51^{+10}_{-10}	y_{148}^{ACTs}	0.9951	$0.996^{+0.015}_{-0.014}$	$100\theta_*$	1.04235	$1.0424^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.94	< 5.26	y_{217}^{ACTs}	1.0079	$1.010^{+0.026}_{-0.026}$	z_{drag}	1060.35	$1060.3^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.805	$0.81^{+0.16}_{-0.15}$	y_{148}^{ACTe}	0.9916	$0.992^{+0.014}_{-0.014}$	r_{drag}	148.24	$148.3^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.840	y_{217}^{ACTe}	0.9660	$0.968^{+0.021}_{-0.020}$	k_D	0.13980	$0.1397^{+0.0012}_{-0.0012}$
γ^{CIB}	0.680	$0.66^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9915	$0.992^{+0.040}_{-0.038}$	$100\theta_D$	0.16081	$0.16083^{+0.00066}_{-0.00064}$
c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00077}$	y_{150}^{SPT}	0.9925	$0.995^{+0.020}_{-0.019}$	z_{eq}	3274	3268^{+110}_{-110}
c_{217}	0.99724	$0.9973^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0230	$1.030^{+0.048}_{-0.043}$	$100\theta_{\text{eq}}$	0.8390	$0.840^{+0.024}_{-0.023}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.774	Ω_Λ	0.7201	$0.721^{+0.027}_{-0.030}$	$r_{\text{drag}}/D_V(0.57)$	0.07352	$0.0736^{+0.0019}_{-0.0018}$
A^{kSZ}	0.76	< 7.85	Ω_m	0.2799	$0.279^{+0.030}_{-0.027}$			

Best-fit $\chi^2_{\text{eff}} = 10507.99$; R-1 = 0.01429

χ^2_{eff} : CMB - lowLike: 2014.66 lowl: -8.30 CamSpec: 7810.57 highL: 688.62 Hubble - HST: 2.38

3.11 base_Alens_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02256	$0.02261^{+0.00064}_{-0.00061}$	β_1	0.23	$0.2^{+1.1}_{-1.1}$	σ_8	0.8009	$0.806^{+0.027}_{-0.027}$
$\Omega_c h^2$	0.1155	$0.1149^{+0.0054}_{-0.0052}$	$A_{148}^{\text{PS, ACT}}$	10.48	$10.7^{+1.2}_{-1.1}$	z_{re}	9.81	$10.6^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04201	$1.0421^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.7	77^{+9}_{-9}	H_0	69.48	$69.8^{+2.6}_{-2.5}$
τ	0.0778	$0.088^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.68	$7.97^{+3.1}_{-3.0}$	$10^9 A_s$	2.123	$2.16^{+0.11}_{-0.10}$
A_L	1.277	$1.27^{+0.23}_{-0.21}$	$A_{150}^{\text{PS, SPT}}$	10.09	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.13875	$0.1381^{+0.0049}_{-0.0048}$
n_s	0.9688	$0.971^{+0.015}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	73.7	75^{+9}_{-9}	$\Omega_m h^3$	0.09641	$0.0964^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.055	$3.073^{+0.051}_{-0.048}$	$r_{95 \times 150}^{\text{PS}}$	0.792	> 0.682	Y_P	0.247921	$0.24794^{+0.00027}_{-0.00026}$
A_{100}^{PS}	192	198^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.542	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8169	$1.813^{+0.025}_{-0.024}$
A_{143}^{PS}	67.3	66^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9086	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.725	$13.71^{+0.11}_{-0.11}$
A_{217}^{PS}	55.6	53^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.422	$0.43^{+0.36}_{-0.39}$	z_*	1089.39	$1089.3^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.20	$3.29^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.840	$0.84^{+0.39}_{-0.39}$	r_*	145.44	$145.6^{+1.2}_{-1.1}$
A_{217}^{CIB}	52.7	51^{+10}_{-10}	y_{148}^{ACTs}	0.9938	$0.995^{+0.015}_{-0.014}$	$100\theta_*$	1.04212	$1.0422^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.62	< 5.23	y_{217}^{ACTs}	1.0063	$1.010^{+0.027}_{-0.026}$	z_{drag}	1060.12	$1060.2^{+1.3}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.804	$0.81^{+0.16}_{-0.15}$	y_{148}^{ACTe}	0.9903	$0.992^{+0.014}_{-0.014}$	r_{drag}	148.06	$148.2^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.840	y_{217}^{ACTe}	0.9645	$0.968^{+0.021}_{-0.020}$	k_D	0.13989	$0.1398^{+0.0012}_{-0.0012}$
γ^{CIB}	0.667	$0.66^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9895	$0.991^{+0.040}_{-0.038}$	$100\theta_D$	0.16092	$0.16089^{+0.00068}_{-0.00066}$
c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00077}$	y_{150}^{SPT}	0.9905	$0.994^{+0.020}_{-0.019}$	z_{eq}	3300	3285^{+120}_{-120}
c_{217}	0.99722	$0.9973^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0212	$1.029^{+0.048}_{-0.043}$	$100\theta_{\text{eq}}$	0.8335	$0.837^{+0.024}_{-0.024}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.781	Ω_Λ	0.7126	$0.716^{+0.029}_{-0.032}$	$r_{\text{drag}}/D_V(0.57)$	0.07304	$0.0733^{+0.0020}_{-0.0019}$
A^{kSZ}	1.31	< 7.92	Ω_m	0.2874	$0.284^{+0.032}_{-0.029}$			

Best-fit $\chi_{\text{eff}}^2 = 10932.03$; R-1 = 0.00990

χ_{eff}^2 : CMB - lowLike: 2014.85 lowl: -8.51 CamSpec: 7808.97 highL: 689.07 SN - SNLS: 427.58

3.12 base_Alens_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02241	$0.02251^{+0.00064}_{-0.00061}$	β_1	0.38	$0.2^{+1.1}_{-1.1}$	σ_8	0.8252	$0.810^{+0.027}_{-0.027}$
$\Omega_c h^2$	0.1175	$0.1161^{+0.0054}_{-0.0054}$	$A_{148}^{\text{PS, ACT}}$	10.41	$10.7^{+1.2}_{-1.1}$	z_{re}	11.60	$10.6^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04177	$1.0419^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	75.8	77^{+9}_{-9}	H_0	68.56	$69.2^{+2.6}_{-2.5}$
τ	0.0975	$0.087^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.33	$7.94^{+3.1}_{-3.0}$	$10^9 A_s$	2.218	$2.16^{+0.11}_{-0.10}$
A_L	1.179	$1.24^{+0.22}_{-0.21}$	$A_{150}^{\text{PS, SPT}}$	9.97	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1406	$0.1393^{+0.0050}_{-0.0050}$
n_s	0.9653	$0.968^{+0.015}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	72.6	75^{+9}_{-9}	$\Omega_m h^3$	0.09637	$0.0964^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.0993	$3.074^{+0.051}_{-0.048}$	$r_{95 \times 150}^{\text{PS}}$	0.813	> 0.683	Y_P	0.247855	$0.24790^{+0.00027}_{-0.00026}$
A_{100}^{PS}	196	200^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.573	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8253	$1.819^{+0.025}_{-0.025}$
A_{143}^{PS}	67.7	67^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9094	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.757	$13.74^{+0.11}_{-0.11}$
A_{217}^{PS}	56.7	54^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.436	$0.43^{+0.36}_{-0.39}$	z_*	1089.76	$1089.5^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.40	$3.28^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.84^{+0.39}_{-0.39}$	r_*	145.04	$145.3^{+1.2}_{-1.2}$
A_{217}^{CIB}	53.5	51^{+10}_{-10}	y_{148}^{ACTs}	0.9936	$0.995^{+0.015}_{-0.014}$	$100\theta_*$	1.04190	$1.0420^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	5.11	< 5.22	y_{217}^{ACTs}	1.0039	$1.009^{+0.027}_{-0.026}$	z_{drag}	1059.93	$1060.0^{+1.3}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.811	$0.81^{+0.16}_{-0.15}$	y_{148}^{ACTe}	0.9900	$0.991^{+0.014}_{-0.014}$	r_{drag}	147.70	$148.0^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.840	y_{217}^{ACTe}	0.9626	$0.967^{+0.021}_{-0.020}$	k_D	0.14015	$0.1399^{+0.0012}_{-0.0012}$
γ^{CIB}	0.679	$0.66^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9884	$0.990^{+0.040}_{-0.038}$	$100\theta_D$	0.16103	$0.16097^{+0.00068}_{-0.00067}$
c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00077}$	y_{150}^{SPT}	0.9889	$0.993^{+0.020}_{-0.019}$	z_{eq}	3343	3312^{+120}_{-120}
c_{217}	0.99735	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0179	$1.028^{+0.047}_{-0.046}$	$100\theta_{\text{eq}}$	0.8248	$0.831^{+0.024}_{-0.023}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.790	Ω_Λ	0.7010	$0.709^{+0.030}_{-0.033}$	$r_{\text{drag}}/D_V(0.57)$	0.07234	$0.0728^{+0.0020}_{-0.0019}$
A^{kSZ}	0.73	< 7.99	Ω_m	0.2990	$0.291^{+0.033}_{-0.030}$			

Best-fit $\chi^2_{\text{eff}} = 10635.14$; R-1 = 0.00707

χ^2_{eff} : CMB - lowLike: 2014.59 lowl: -7.20 CamSpec: 7807.52 highL: 690.00 SN - Union2.1: 130.14

3.13 base_Alens_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02245	$0.02240^{+0.00072}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.000	< 0.775	$\Omega_m h^3$	0.09639	$0.0963^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1173	$0.1175^{+0.0061}_{-0.0060}$	γ^{CIB}	0.544	$0.53^{+0.23}_{-0.25}$	Y_P	0.247874	$0.24785^{+0.00030}_{-0.00030}$
$100\theta_{\text{MC}}$	1.04171	$1.0417^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8306	$1.828^{+0.028}_{-0.027}$
τ	0.072	< 0.122	c_{217}	0.99624	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.754	$13.76^{+0.12}_{-0.13}$
A_L	1.256	$1.28^{+0.29}_{-0.26}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	z_*	1089.69	$1089.8^{+1.3}_{-1.3}$
n_s	0.9697	$0.967^{+0.018}_{-0.017}$	A^{kSZ}	0.0	—	r_*	145.05	$145.1^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.052	$3.02^{+0.13}_{-0.11}$	β_1^1	0.53	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04184	$1.0419^{+0.0013}_{-0.0013}$
A_{100}^{PS}	144	157^{+100}_{-100}	Ω_Λ	0.7019	$0.700^{+0.036}_{-0.039}$	z_{drag}	1060.01	$1059.9^{+1.4}_{-1.3}$
A_{143}^{PS}	57.3	50^{+30}_{-20}	Ω_m	0.2981	$0.300^{+0.039}_{-0.036}$	r_{drag}	147.70	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	122.0	107^{+30}_{-30}	σ_8	0.806	$0.793^{+0.058}_{-0.049}$	k_D	0.14019	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	2.47	—	z_{re}	9.38	< 13.5	$100\theta_D$	0.16096	$0.16105^{+0.00076}_{-0.00075}$
A_{217}^{CIB}	23	27^{+10}_{-10}	H_0	68.64	$68.6^{+3.0}_{-2.8}$	z_{eq}	3341	3343^{+140}_{-130}
A_{143}^{tSZ}	5.55	—	$10^9 A_s$	2.116	$2.05^{+0.28}_{-0.22}$	$100\theta_{\text{eq}}$	0.8253	$0.825^{+0.027}_{-0.026}$
$r_{143 \times 217}^{\text{PS}}$	0.920	> 0.742	$\Omega_m h^2$	0.1404	$0.1405^{+0.0057}_{-0.0055}$	$r_{\text{drag}}/D_V(0.57)$	0.07238	$0.0724^{+0.0022}_{-0.0021}$

Best-fit $\chi^2_{\text{eff}} = 7786.09$; R-1 = 0.00712

χ^2_{eff} : CMB - lowl: -8.65 CamSpec: 7794.14

3.14 base_Alens_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02231	$0.02228^{+0.00066}_{-0.00062}$	$r_{143 \times 217}^{\text{CIB}}$	0.40	—	$\Omega_m h^3$	0.09608	$0.0960^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.1172	$0.1174^{+0.0056}_{-0.0058}$	γ^{CIB}	0.527	$0.53^{+0.25}_{-0.25}$	Y_P	0.247815	$0.24780^{+0.00028}_{-0.00027}$
$100\theta_{\text{MC}}$	1.04162	$1.0416^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00075}_{-0.00074}$	$10^9 A_s e^{-2\tau}$	1.8268	$1.826^{+0.026}_{-0.027}$
τ	0.068	< 0.117	c_{217}	0.99621	$0.9963^{+0.0026}_{-0.0028}$	Age/Gyr	13.770	$13.77^{+0.11}_{-0.12}$
A_L	1.088	$1.12^{+0.18}_{-0.19}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.85	$1089.9^{+1.2}_{-1.2}$
n_s	0.9674	$0.965^{+0.017}_{-0.016}$	A^{kSZ}	0.0	—	r_*	145.18	$145.2^{+1.3}_{-1.2}$
$\ln(10^{10} A_s)$	3.042	$3.01^{+0.13}_{-0.10}$	β_1^1	0.51	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04176	$1.0418^{+0.0013}_{-0.0013}$
A_{100}^{PS}	144	167^{+100}_{-100}	Ω_Λ	0.7014	$0.700^{+0.035}_{-0.035}$	z_{drag}	1059.67	$1059.6^{+1.2}_{-1.2}$
A_{143}^{PS}	48.7	51^{+30}_{-30}	Ω_m	0.2986	$0.300^{+0.035}_{-0.035}$	r_{drag}	147.88	$147.9^{+1.2}_{-1.2}$
A_{217}^{PS}	114.1	103^{+30}_{-40}	σ_8	0.802	$0.791^{+0.057}_{-0.047}$	k_D	0.13989	$0.1399^{+0.0013}_{-0.0012}$
A_{143}^{CIB}	5.30	—	z_{re}	9.02	< 13.2	$100\theta_D$	0.16114	$0.16120^{+0.00069}_{-0.00070}$
A_{217}^{CIB}	28	29^{+20}_{-10}	H_0	68.53	$68.5^{+2.9}_{-2.7}$	z_{eq}	3335	3338^{+130}_{-130}
A_{143}^{tSZ}	8.06	—	$10^9 A_s$	2.094	$2.04^{+0.27}_{-0.21}$	$100\theta_{\text{eq}}$	0.8259	$0.826^{+0.026}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.894	> 0.725	$\Omega_m h^2$	0.1402	$0.1403^{+0.0052}_{-0.0054}$	$r_{\text{drag}}/D_V(0.57)$	0.07237	$0.0723^{+0.0021}_{-0.0021}$

Best-fit $\chi_{\text{eff}}^2 = 7800.04$; R-1 = 0.04272

χ_{eff}^2 : CMB - lensing: 9.85 lowl: -8.56 CamSpec: 7798.00

3.15 base_Alens_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02244	$0.02236^{+0.00056}_{-0.00055}$	$r_{143 \times 217}^{\text{CIB}}$	0.000	< 0.777	$\Omega_m h^3$	0.09645	$0.0963^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.11784	$0.1179^{+0.0036}_{-0.0035}$	γ^{CIB}	0.546	$0.53^{+0.23}_{-0.25}$	Y_P	0.247871	$0.24783^{+0.00024}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04169	$1.0417^{+0.0011}_{-0.0011}$	c_{100}	1.00059	$1.00060^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8332	$1.829^{+0.019}_{-0.018}$
τ	0.054	< 0.117	c_{217}	0.99626	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.757	$13.767^{+0.082}_{-0.083}$
A_L	1.298	$1.27^{+0.26}_{-0.25}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	z_*	1089.74	$1089.86^{+0.88}_{-0.87}$
n_s	0.9685	$0.965^{+0.012}_{-0.012}$	A^{kSZ}	0.0	—	r_*	144.92	$144.98^{+0.83}_{-0.83}$
$\ln(10^{10} A_s)$	3.016	$3.02^{+0.13}_{-0.11}$	β_1^1	0.55	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04180	$1.0418^{+0.0011}_{-0.0011}$
A_{100}^{PS}	146	158^{+100}_{-100}	Ω_Λ	0.6991	$0.698^{+0.021}_{-0.022}$	z_{drag}	1060.05	$1059.8^{+1.2}_{-1.2}$
A_{143}^{PS}	57.6	51^{+30}_{-20}	Ω_m	0.3009	$0.302^{+0.022}_{-0.021}$	r_{drag}	147.57	$147.65^{+0.88}_{-0.87}$
A_{217}^{PS}	121.8	107^{+30}_{-30}	σ_8	0.793	$0.793^{+0.055}_{-0.045}$	k_D	0.14031	$0.1402^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	2.55	—	z_{re}	7.58	< 13.2	$100\theta_D$	0.16095	$0.16107^{+0.00069}_{-0.00067}$
A_{217}^{CIB}	23	27^{+10}_{-10}	H_0	68.44	$68.3^{+1.7}_{-1.7}$	z_{eq}	3352	3352^{+81}_{-79}
A_{143}^{tSZ}	5.41	—	$10^9 A_s$	2.041	$2.04^{+0.27}_{-0.21}$	$100\theta_{\text{eq}}$	0.8231	$0.823^{+0.015}_{-0.015}$
$r_{143 \times 217}^{\text{PS}}$	0.918	> 0.740	$\Omega_m h^2$	0.14093	$0.1409^{+0.0034}_{-0.0033}$	$r_{\text{drag}}/D_V(0.57)$	0.07221	$0.0722^{+0.0013}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 7787.11$; R-1 = 0.00960

χ_{eff}^2 : BAO - DR7: 0.45 6DF: 0.07 DR9: 0.77 CMB - lowl: -8.90 CamSpec: 7794.14

3.16 base_Alens_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02278	$0.02269^{+0.00068}_{-0.00065}$	$r_{143 \times 217}^{\text{CIB}}$	0.475	< 0.761	$\Omega_m h^3$	0.09666	$0.0965^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1141	$0.1146^{+0.0052}_{-0.0051}$	γ^{CIB}	0.521	$0.53^{+0.23}_{-0.25}$	Y_P	0.248014	$0.24797^{+0.00028}_{-0.00028}$
$100\theta_{\text{MC}}$	1.04224	$1.0422^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00060^{+0.00080}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8168	$1.816^{+0.025}_{-0.025}$
τ	0.099	< 0.139	c_{217}	0.99625	$0.9962^{+0.0027}_{-0.0027}$	Age/Gyr	13.689	$13.70^{+0.11}_{-0.11}$
A_L	1.287	$1.34^{+0.30}_{-0.29}$	$\xi^{\text{tSZ-CIB}}$	0.32	—	z_*	1089.00	$1089.2^{+1.2}_{-1.1}$
n_s	0.9789	$0.974^{+0.017}_{-0.016}$	A^{kSZ}	0.0	—	r_*	145.65	$145.6^{+1.2}_{-1.1}$
$\ln(10^{10} A_s)$	3.097	$3.03^{+0.14}_{-0.13}$	β_1^1	0.45	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04234	$1.0423^{+0.0013}_{-0.0013}$
A_{100}^{PS}	124	152^{+100}_{-100}	Ω_Λ	0.7215	$0.718^{+0.031}_{-0.031}$	z_{drag}	1060.54	$1060.4^{+1.3}_{-1.3}$
A_{143}^{PS}	54.3	48^{+30}_{-20}	Ω_m	0.2785	$0.282^{+0.031}_{-0.031}$	r_{drag}	148.20	$148.2^{+1.2}_{-1.1}$
A_{217}^{PS}	119.3	106^{+30}_{-30}	σ_8	0.815	$0.789^{+0.062}_{-0.054}$	k_D	0.13990	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	< 16.6	z_{re}	11.5	< 14.5	$100\theta_D$	0.16071	$0.16082^{+0.00072}_{-0.00070}$
A_{217}^{CIB}	22	26^{+10}_{-10}	H_0	70.28	$70.0^{+2.6}_{-2.5}$	z_{eq}	3271	3280^{+120}_{-110}
A_{143}^{tSZ}	6.52	—	$10^9 A_s$	2.214	< 2.38	$100\theta_{\text{eq}}$	0.8398	$0.838^{+0.024}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.933	> 0.742	$\Omega_m h^2$	0.13754	$0.1379^{+0.0049}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.07360	$0.0734^{+0.0020}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 7789.49$; R-1 = 0.01180

χ_{eff}^2 : CMB - lowl: -8.82 CamSpec: 7795.30 Hubble - HST: 2.21

3.17 base_Alens_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02266	$0.02258^{+0.00070}_{-0.00067}$	$r_{143 \times 217}^{\text{CIB}}$	0.319	< 0.764	$\Omega_m h^3$	0.09658	$0.0964^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1154	$0.1156^{+0.0055}_{-0.0056}$	γ^{CIB}	0.519	$0.53^{+0.23}_{-0.25}$	Y_P	0.247962	$0.24793^{+0.00029}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04205	$1.0420^{+0.0013}_{-0.0013}$	c_{100}	1.00061	$1.00060^{+0.00079}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8223	$1.820^{+0.026}_{-0.026}$
τ	0.068	< 0.133	c_{217}	0.99623	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.714	$13.72^{+0.11}_{-0.12}$
A_L	1.318	$1.32^{+0.30}_{-0.27}$	$\xi^{\text{tSZ-CIB}}$	0.15	—	z_*	1089.27	$1089.4^{+1.2}_{-1.2}$
n_s	0.9745	$0.972^{+0.017}_{-0.016}$	A^{kSZ}	0.0	—	r_*	145.39	$145.4^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.039	$3.03^{+0.14}_{-0.12}$	β_1^1	0.52	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04215	$1.0421^{+0.0013}_{-0.0013}$
A_{100}^{PS}	108	154^{+100}_{-100}	Ω_Λ	0.7137	$0.712^{+0.032}_{-0.034}$	z_{drag}	1060.35	$1060.2^{+1.3}_{-1.3}$
A_{143}^{PS}	50.5	49^{+30}_{-20}	Ω_m	0.2863	$0.288^{+0.034}_{-0.032}$	r_{drag}	147.98	$148.0^{+1.2}_{-1.1}$
A_{217}^{PS}	121.4	107^{+30}_{-30}	σ_8	0.795	$0.790^{+0.061}_{-0.052}$	k_D	0.14004	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	< 16.8	z_{re}	8.89	< 14.2	$100\theta_D$	0.16080	$0.16091^{+0.00075}_{-0.00072}$
A_{217}^{CIB}	22	27^{+10}_{-10}	H_0	69.61	$69.5^{+2.8}_{-2.6}$	z_{eq}	3300	3301^{+120}_{-120}
A_{143}^{tSZ}	8.69	—	$10^9 A_s$	2.088	< 2.36	$100\theta_{\text{eq}}$	0.8338	$0.834^{+0.026}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.939	> 0.742	$\Omega_m h^2$	0.1387	$0.1388^{+0.0051}_{-0.0051}$	$r_{\text{drag}}/D_V(0.57)$	0.07310	$0.0731^{+0.0021}_{-0.0020}$

Best-fit $\chi_{\text{eff}}^2 = 8213.92$; R-1 = 0.00773

χ_{eff}^2 : CMB - lowl: -9.06 CamSpec: 7794.65 SN - SNLS: 427.50

3.18 base_Alens_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02251	$0.02245^{+0.00069}_{-0.00067}$	$r_{143 \times 217}^{\text{CIB}}$	0.477	< 0.772	$\Omega_m h^3$	0.09647	$0.0964^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1169	$0.1170^{+0.0057}_{-0.0056}$	γ^{CIB}	0.547	$0.53^{+0.23}_{-0.25}$	Y_P	0.247901	$0.24787^{+0.00029}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04181	$1.0418^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8280	$1.825^{+0.026}_{-0.026}$
τ	0.056	< 0.124	c_{217}	0.99621	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.742	$13.75^{+0.11}_{-0.12}$
A_L	1.306	$1.29^{+0.29}_{-0.26}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.03	—	z_*	1089.57	$1089.7^{+1.2}_{-1.2}$
n_s	0.9701	$0.968^{+0.017}_{-0.016}$	A^{kSZ}	1.20	—	r_*	145.12	$145.2^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.018	$3.02^{+0.14}_{-0.11}$	β_1^1	0.55	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04193	$1.0419^{+0.0013}_{-0.0013}$
A_{100}^{PS}	105	157^{+100}_{-100}	Ω_Λ	0.7048	$0.704^{+0.033}_{-0.035}$	z_{drag}	1060.12	$1060.0^{+1.3}_{-1.3}$
A_{143}^{PS}	48.8	50^{+30}_{-20}	Ω_m	0.2952	$0.296^{+0.035}_{-0.033}$	r_{drag}	147.75	$147.8^{+1.2}_{-1.1}$
A_{217}^{PS}	119.0	107^{+30}_{-30}	σ_8	0.791	$0.792^{+0.058}_{-0.049}$	k_D	0.14018	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	7.78	< 13.6	$100\theta_D$	0.16091	$0.16101^{+0.00075}_{-0.00073}$
A_{217}^{CIB}	23	27^{+10}_{-10}	H_0	68.88	$68.8^{+2.8}_{-2.7}$	z_{eq}	3331	3331^{+130}_{-120}
A_{143}^{tSZ}	9.11	—	$10^9 A_s$	2.044	< 2.33	$100\theta_{\text{eq}}$	0.8273	$0.827^{+0.025}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.934	> 0.741	$\Omega_m h^2$	0.1401	$0.1401^{+0.0053}_{-0.0052}$	$r_{\text{drag}}/D_V(0.57)$	0.07255	$0.0725^{+0.0021}_{-0.0020}$

Best-fit $\chi^2_{\text{eff}} = 7916.27$; R-1 = 0.00761

χ^2_{eff} : CMB - lowl: -8.99 CamSpec: 7794.62 SN - Union2.1: 130.06

3.19 base_Alens_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02260	$0.0226^{+0.0011}_{-0.0010}$	σ_8	0.8144	$0.806^{+0.044}_{-0.045}$	r_*	145.74	$146.0^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1143	$0.1135^{+0.0090}_{-0.0087}$	z_{re}	10.84	$10.6^{+2.2}_{-2.1}$	$100\theta_*$	1.04049	$1.0402^{+0.0043}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04039	$1.0400^{+0.0044}_{-0.0045}$	H_0	69.42	$69.7^{+4.4}_{-4.3}$	z_{drag}	1060.12	$1060.0^{+2.3}_{-2.2}$
τ	0.0902	$0.088^{+0.028}_{-0.027}$	$10^9 A_s$	2.219	$2.20^{+0.13}_{-0.13}$	r_{drag}	148.36	$148.6^{+2.3}_{-2.3}$
A_L	0.89	< 1.91	$\Omega_m h^2$	0.1375	$0.1367^{+0.0087}_{-0.0084}$	k_D	0.13960	$0.1393^{+0.0027}_{-0.0027}$
n_s	0.9744	$0.973^{+0.027}_{-0.026}$	$\Omega_m h^3$	0.09549	$0.0952^{+0.0036}_{-0.0035}$	$100\theta_D$	0.16066	$0.1607^{+0.0011}_{-0.0010}$
$\ln(10^{10} A_s)$	3.100	$3.090^{+0.061}_{-0.056}$	Y_P	0.247937	$0.24793^{+0.00045}_{-0.00044}$	z_{eq}	3271	3251^{+210}_{-200}
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.853	$1.841^{+0.059}_{-0.059}$	$100\theta_{\text{eq}}$	0.8377	$0.842^{+0.042}_{-0.040}$
Ω_Λ	0.715	$0.717^{+0.051}_{-0.054}$	Age/Gyr	13.764	$13.77^{+0.24}_{-0.23}$	$r_{\text{drag}}/D_V(0.57)$	0.07305	$0.0733^{+0.0035}_{-0.0032}$
Ω_m	0.285	$0.283^{+0.054}_{-0.051}$	z_*	1089.24	$1089.2^{+1.7}_{-1.7}$			

Best-fit $\chi^2_{\text{eff}} = 7557.63$; R-1 = 0.00697

χ^2_{eff} : CMB - WMAP: 7557.64

3.20 base_Alens_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02249	$0.02242^{+0.00091}_{-0.00090}$	σ_8	0.8196	$0.814^{+0.036}_{-0.034}$	r_*	145.36	$145.5^{+1.6}_{-1.5}$
$\Omega_c h^2$	0.11606	$0.1158^{+0.0048}_{-0.0047}$	z_{re}	10.84	$10.5^{+2.2}_{-2.1}$	$100\theta_*$	1.03971	$1.0395^{+0.0040}_{-0.0040}$
$100\theta_{\text{MC}}$	1.03960	$1.0394^{+0.0040}_{-0.0040}$	H_0	68.42	$68.4^{+1.9}_{-1.9}$	z_{drag}	1060.01	$1059.8^{+2.2}_{-2.2}$
τ	0.0894	$0.086^{+0.026}_{-0.024}$	$10^9 A_s$	2.222	$2.20^{+0.13}_{-0.12}$	r_{drag}	148.00	$148.2^{+1.9}_{-1.8}$
A_L	0.81	< 1.80	$\Omega_m h^2$	0.1392	$0.1389^{+0.0050}_{-0.0050}$	k_D	0.13990	$0.1397^{+0.0024}_{-0.0024}$
n_s	0.9694	$0.968^{+0.021}_{-0.020}$	$\Omega_m h^3$	0.09524	$0.0950^{+0.0035}_{-0.0035}$	$100\theta_D$	0.16062	$0.1607^{+0.0010}_{-0.0010}$
$\ln(10^{10} A_s)$	3.101	$3.091^{+0.058}_{-0.054}$	Y_P	0.247891	$0.24786^{+0.00038}_{-0.00039}$	z_{eq}	3311	3303^{+120}_{-120}
A_{tSZ}	0.75	—	$10^9 A_s e^{-2\tau}$	1.8581	$1.854^{+0.045}_{-0.044}$	$100\theta_{\text{eq}}$	0.8293	$0.831^{+0.020}_{-0.020}$
Ω_Λ	0.7027	$0.703^{+0.022}_{-0.024}$	Age/Gyr	13.807	$13.82^{+0.18}_{-0.18}$	$r_{\text{drag}}/D_V(0.57)$	0.07227	$0.0723^{+0.0014}_{-0.0014}$
Ω_m	0.2973	$0.297^{+0.024}_{-0.022}$	z_*	1089.52	$1089.6^{+1.1}_{-1.1}$			

Best-fit $\chi^2_{\text{eff}} = 7559.14$; R-1 = 0.01412

χ^2_{eff} : BAO - 6DF: 0.06 DR7: 0.35 DR9: 0.85 CMB - WMAP: 7557.88

3.21 base_Alens_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02288	$0.02291^{+0.00099}_{-0.00093}$	σ_8	0.7991	$0.795^{+0.043}_{-0.041}$	r_*	146.62	$146.7^{+2.0}_{-2.0}$
$\Omega_c h^2$	0.1102	$0.1101^{+0.0072}_{-0.0067}$	z_{re}	11.23	$10.8^{+2.3}_{-2.2}$	$100\theta_*$	1.04097	$1.0413^{+0.0041}_{-0.0040}$
$100\theta_{\text{MC}}$	1.04088	$1.0412^{+0.0041}_{-0.0041}$	H_0	71.38	$71.6^{+3.3}_{-3.3}$	z_{drag}	1060.47	$1060.5^{+2.2}_{-2.2}$
τ	0.0971	$0.092^{+0.028}_{-0.028}$	$10^9 A_s$	2.217	$2.20^{+0.14}_{-0.13}$	r_{drag}	149.16	$149.2^{+2.2}_{-2.2}$
A_L	0.82	< 2.07	$\Omega_m h^2$	0.1337	$0.1336^{+0.0072}_{-0.0067}$	k_D	0.13896	$0.1389^{+0.0026}_{-0.0026}$
n_s	0.9809	$0.982^{+0.023}_{-0.023}$	$\Omega_m h^3$	0.09547	$0.0956^{+0.0036}_{-0.0034}$	$100\theta_D$	0.16051	$0.1606^{+0.0010}_{-0.0010}$
$\ln(10^{10} A_s)$	3.099	$3.089^{+0.063}_{-0.061}$	Y_P	0.248056	$0.24806^{+0.00040}_{-0.00039}$	z_{eq}	3180	3177^{+170}_{-160}
A_{tSZ}	1.31	—	$10^9 A_s e^{-2\tau}$	1.825	$1.825^{+0.054}_{-0.053}$	$100\theta_{\text{eq}}$	0.8569	$0.858^{+0.034}_{-0.034}$
Ω_Λ	0.7375	$0.739^{+0.035}_{-0.037}$	Age/Gyr	13.698	$13.69^{+0.19}_{-0.20}$	$r_{\text{drag}}/D_V(0.57)$	0.07459	$0.0748^{+0.0026}_{-0.0026}$
Ω_m	0.2625	$0.261^{+0.037}_{-0.035}$	z_*	1088.54	$1088.5^{+1.3}_{-1.3}$			

Best-fit $\chi^2_{\text{eff}} = 7559.68$; R-1 = 0.01806

χ^2_{eff} : CMB - WMAP: 7558.60 Hubble - HST: 1.08

3.22 base_Alens_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02277	$0.0228^{+0.0010}_{-0.00099}$	σ_8	0.8044	$0.796^{+0.042}_{-0.042}$	r_*	146.41	$146.5^{+2.1}_{-2.0}$
$\Omega_c h^2$	0.1113	$0.1108^{+0.0077}_{-0.0073}$	z_{re}	11.22	$10.7^{+2.2}_{-2.1}$	$100\theta_*$	1.04067	$1.0407^{+0.0043}_{-0.0043}$
$100\theta_{\text{MC}}$	1.04056	$1.0406^{+0.0044}_{-0.0043}$	H_0	70.75	$71.0^{+3.9}_{-3.7}$	z_{drag}	1060.31	$1060.3^{+2.3}_{-2.3}$
τ	0.0963	$0.091^{+0.028}_{-0.028}$	$10^9 A_s$	2.223	$2.19^{+0.14}_{-0.13}$	r_{drag}	148.98	$149.1^{+2.2}_{-2.2}$
A_L	0.87	< 2.01	$\Omega_m h^2$	0.1347	$0.1343^{+0.0076}_{-0.0072}$	k_D	0.13907	$0.1389^{+0.0026}_{-0.0026}$
n_s	0.9791	$0.978^{+0.025}_{-0.024}$	$\Omega_m h^3$	0.09532	$0.0953^{+0.0036}_{-0.0035}$	$100\theta_D$	0.16057	$0.1606^{+0.0011}_{-0.0010}$
$\ln(10^{10} A_s)$	3.101	$3.087^{+0.062}_{-0.060}$	Y_P	0.248008	$0.24801^{+0.00043}_{-0.00042}$	z_{eq}	3204	3192^{+180}_{-170}
A_{tSZ}	0.69	—	$10^9 A_s e^{-2\tau}$	1.833	$1.827^{+0.054}_{-0.054}$	$100\theta_{\text{eq}}$	0.8516	$0.854^{+0.037}_{-0.035}$
Ω_Λ	0.7309	$0.733^{+0.041}_{-0.043}$	Age/Gyr	13.725	$13.72^{+0.22}_{-0.23}$	$r_{\text{drag}}/D_V(0.57)$	0.07412	$0.0743^{+0.0030}_{-0.0028}$
Ω_m	0.2691	$0.267^{+0.043}_{-0.041}$	z_*	1088.77	$1088.7^{+1.5}_{-1.5}$			

Best-fit $\chi^2_{\text{eff}} = 7984.74$; R-1 = 0.01414

χ^2_{eff} : CMB - WMAP: 7558.28 SN - SNLS: 426.47

3.23 base_Alens_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02261	$0.0226^{+0.0010}_{-0.0010}$	σ_8	0.8135	$0.805^{+0.042}_{-0.042}$	r_*	145.83	$146.1^{+2.1}_{-2.0}$
$\Omega_c h^2$	0.1139	$0.1131^{+0.0080}_{-0.0078}$	z_{re}	10.93	$10.6^{+2.2}_{-2.1}$	$100\theta_*$	1.04045	$1.0402^{+0.0042}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04034	$1.0401^{+0.0043}_{-0.0045}$	H_0	69.55	$69.8^{+4.0}_{-3.8}$	z_{drag}	1060.12	$1060.1^{+2.3}_{-2.2}$
τ	0.0914	$0.089^{+0.028}_{-0.027}$	$10^9 A_s$	2.221	$2.20^{+0.13}_{-0.13}$	r_{drag}	148.44	$148.7^{+2.2}_{-2.1}$
A_L	0.82	< 1.91	$\Omega_m h^2$	0.1372	$0.1364^{+0.0077}_{-0.0077}$	k_D	0.13952	$0.1393^{+0.0026}_{-0.0026}$
n_s	0.9748	$0.974^{+0.025}_{-0.025}$	$\Omega_m h^3$	0.09542	$0.0952^{+0.0036}_{-0.0035}$	$100\theta_D$	0.16065	$0.1607^{+0.0010}_{-0.0010}$
$\ln(10^{10} A_s)$	3.101	$3.089^{+0.062}_{-0.056}$	Y_P	0.247941	$0.24794^{+0.00043}_{-0.00043}$	z_{eq}	3263	3243^{+180}_{-180}
A_{tSZ}	0.13	—	$10^9 A_s e^{-2\tau}$	1.850	$1.840^{+0.056}_{-0.056}$	$100\theta_{\text{eq}}$	0.8393	$0.844^{+0.038}_{-0.036}$
Ω_Λ	0.7164	$0.719^{+0.045}_{-0.047}$	Age/Gyr	13.762	$13.76^{+0.22}_{-0.22}$	$r_{\text{drag}}/D_V(0.57)$	0.07315	$0.0734^{+0.0031}_{-0.0029}$
Ω_m	0.2836	$0.281^{+0.047}_{-0.045}$	z_*	1089.19	$1089.1^{+1.6}_{-1.5}$			

Best-fit $\chi^2_{\text{eff}} = 7687.52$; R-1 = 0.00800

χ^2_{eff} : CMB - WMAP: 7557.61 SN - Union2.1: 129.91

3.24 base_Alens_planck_tauprior

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02229	$0.02224^{+0.00078}_{-0.00077}$	$r_{143 \times 217}^{\text{CIB}}$	0.608	< 0.793	$\Omega_m h^3$	0.09634	$0.0962^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.1193	$0.1193^{+0.0074}_{-0.0069}$	γ^{CIB}	0.587	$0.53^{+0.24}_{-0.25}$	Y_P	0.247804	$0.24778^{+0.00033}_{-0.00033}$
$100\theta_{\text{MC}}$	1.04151	$1.0415^{+0.0014}_{-0.0015}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8396	$1.835^{+0.034}_{-0.032}$
τ	0.0928	$0.089^{+0.025}_{-0.025}$	c_{217}	0.99634	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.785	$13.79^{+0.14}_{-0.14}$
A_L	1.151	$1.15^{+0.26}_{-0.24}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.17	—	z_*	1090.07	$1090.1^{+1.6}_{-1.5}$
n_s	0.9641	$0.961^{+0.021}_{-0.021}$	A^{kSZ}	0.0	—	r_*	144.66	$144.7^{+1.4}_{-1.5}$
$\ln(10^{10} A_s)$	3.098	$3.088^{+0.053}_{-0.053}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0416^{+0.0014}_{-0.0014}$
A_{100}^{PS}	153	164^{+100}_{-100}	Ω_Λ	0.6900	$0.689^{+0.045}_{-0.048}$	z_{drag}	1059.78	$1059.6^{+1.5}_{-1.4}$
A_{143}^{PS}	63.7	52^{+30}_{-30}	Ω_m	0.3100	$0.311^{+0.048}_{-0.045}$	r_{drag}	147.36	$147.4^{+1.4}_{-1.4}$
A_{217}^{PS}	116.7	107^{+30}_{-30}	σ_8	0.8308	$0.826^{+0.034}_{-0.034}$	k_D	0.14042	$0.1403^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	0.0	—	z_{re}	11.29	$11.0^{+2.2}_{-2.3}$	$100\theta_D$	0.16109	$0.16118^{+0.00083}_{-0.00079}$
A_{217}^{CIB}	26	28^{+20}_{-10}	H_0	67.73	$67.7^{+3.4}_{-3.4}$	z_{eq}	3383	3381^{+160}_{-150}
A_{143}^{tSZ}	5.87	—	$10^9 A_s$	2.215	$2.19^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8169	$0.818^{+0.031}_{-0.031}$
$r_{143 \times 217}^{\text{PS}}$	0.923	> 0.736	$\Omega_m h^2$	0.1422	$0.1421^{+0.0069}_{-0.0064}$	$r_{\text{drag}}/D_V(0.57)$	0.07170	$0.0717^{+0.0025}_{-0.0025}$

Best-fit $\chi_{\text{eff}}^2 = 7795.09$; R-1 = 0.00613

χ_{eff}^2 : CMB - CamSpec: 7794.73

3.25 base_Alens_planck_tauprior_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02215^{+0.00072}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.530	< 0.828	$\Omega_m h^3$	0.09600	$0.0960^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1184	$0.1189^{+0.0070}_{-0.0068}$	γ^{CIB}	0.516	$0.53^{+0.24}_{-0.26}$	Y_P	0.247770	$0.24775^{+0.00031}_{-0.00030}$
$100\theta_{\text{MC}}$	1.04146	$1.0414^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00076}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8301	$1.833^{+0.032}_{-0.033}$
τ	0.0864	$0.089^{+0.026}_{-0.025}$	c_{217}	0.99625	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.790	$13.80^{+0.13}_{-0.13}$
A_L	1.028	$1.02^{+0.16}_{-0.15}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.09	$1090.2^{+1.4}_{-1.5}$
n_s	0.9624	$0.961^{+0.021}_{-0.020}$	A^{kSZ}	1.52	—	r_*	144.97	$144.9^{+1.4}_{-1.5}$
$\ln(10^{10} A_s)$	3.080	$3.086^{+0.053}_{-0.053}$	β_1^1	0.53	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04160	$1.0415^{+0.0014}_{-0.0014}$
A_{100}^{PS}	139	171^{+100}_{-100}	Ω_Λ	0.6944	$0.690^{+0.044}_{-0.045}$	z_{drag}	1059.51	$1059.4^{+1.4}_{-1.3}$
A_{143}^{PS}	43	52^{+30}_{-30}	Ω_m	0.3056	$0.310^{+0.045}_{-0.044}$	r_{drag}	147.70	$147.6^{+1.3}_{-1.4}$
A_{217}^{PS}	108.4	103^{+30}_{-30}	σ_8	0.8207	$0.824^{+0.033}_{-0.033}$	k_D	0.14000	$0.1400^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	6.60	—	z_{re}	10.73	$11.0^{+2.2}_{-2.3}$	$100\theta_D$	0.16123	$0.16129^{+0.00075}_{-0.00075}$
A_{217}^{CIB}	29.8	30^{+20}_{-10}	H_0	67.98	$67.7^{+3.2}_{-3.2}$	z_{eq}	3359	3371^{+160}_{-150}
A_{143}^{tSZ}	9.45	—	$10^9 A_s$	2.175	$2.19^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8210	$0.819^{+0.030}_{-0.029}$
$r_{143 \times 217}^{\text{PS}}$	0.890	> 0.717	$\Omega_m h^2$	0.1412	$0.1417^{+0.0065}_{-0.0063}$	$r_{\text{drag}}/D_V(0.57)$	0.07196	$0.0718^{+0.0025}_{-0.0024}$

Best-fit $\chi_{\text{eff}}^2 = 7808.51$; R-1 = 0.03299

χ_{eff}^2 : CMB - lensing: 9.86 CamSpec: 7797.72

3.26 base_Alens_planck_tauprior_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02219	$0.02228^{+0.00070}_{-0.00068}$	β_1^1	0.42	$0.3^{+1.1}_{-1.1}$	σ_8	0.8328	$0.823^{+0.033}_{-0.033}$
$\Omega_c h^2$	0.1201	$0.1189^{+0.0068}_{-0.0065}$	$A_{148}^{\text{PS, ACT}}$	10.35	$10.6^{+1.2}_{-1.1}$	z_{re}	11.52	$10.9^{+2.1}_{-2.3}$
$100\theta_{\text{MC}}$	1.04137	$1.0415^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.0	77^{+9}_{-9}	H_0	67.33	$67.9^{+3.1}_{-3.1}$
τ	0.0949	$0.089^{+0.025}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.38	$7.85^{+3.0}_{-2.9}$	$10^9 A_s$	2.221	$2.19^{+0.12}_{-0.11}$
A_L	1.131	$1.17^{+0.23}_{-0.23}$	$A_{150}^{\text{PS, SPT}}$	9.88	$10.2^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1429	$0.1418^{+0.0063}_{-0.0060}$
n_s	0.9569	$0.960^{+0.019}_{-0.018}$	$A_{220}^{\text{PS, SPT}}$	72.7	75^{+9}_{-9}	$\Omega_m h^3$	0.09624	$0.0963^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.101	$3.086^{+0.052}_{-0.052}$	$r_{95 \times 150}^{\text{PS}}$	0.803	> 0.684	Y_P	0.247762	$0.24780^{+0.00030}_{-0.00029}$
A_{100}^{PS}	203	208^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.558	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8373	$1.831^{+0.032}_{-0.030}$
A_{143}^{PS}	71.5	71^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9097	$0.935^{+0.047}_{-0.045}$	Age/Gyr	13.802	$13.78^{+0.12}_{-0.12}$
A_{217}^{PS}	59.5	57^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.36}_{-0.39}$	z_*	1090.26	$1090.0^{+1.4}_{-1.3}$
A_{143}^{CIB}	3.28	$3.26^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.851	$0.84^{+0.39}_{-0.39}$	r_*	144.53	$144.8^{+1.4}_{-1.4}$
A_{217}^{CIB}	52.8	50^{+10}_{-10}	y_{148}^{ACTs}	0.9919	$0.993^{+0.015}_{-0.014}$	$100\theta_*$	1.04152	$1.0417^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.79	< 5.03	y_{217}^{ACTs}	1.0031	$1.007^{+0.027}_{-0.026}$	z_{drag}	1059.59	$1059.7^{+1.3}_{-1.3}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9883	$0.990^{+0.015}_{-0.014}$	r_{drag}	147.26	$147.5^{+1.3}_{-1.3}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.842	y_{217}^{ACTe}	0.9619	$0.965^{+0.021}_{-0.020}$	k_D	0.14045	$0.1403^{+0.0013}_{-0.0013}$
γ^{CIB}	0.667	$0.65^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9850	$0.987^{+0.040}_{-0.037}$	$100\theta_D$	0.16119	$0.16113^{+0.00074}_{-0.00071}$
c_{100}	1.00060	$1.00060^{+0.00079}_{-0.00079}$	y_{150}^{SPT}	0.9859	$0.990^{+0.020}_{-0.019}$	z_{eq}	3400	3373^{+150}_{-140}
c_{217}	0.99730	$0.9973^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0173	$1.026^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8135	$0.819^{+0.029}_{-0.028}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.821	Ω_Λ	0.6847	$0.692^{+0.042}_{-0.043}$	$r_{\text{drag}}/D_V(0.57)$	0.07141	$0.0719^{+0.0024}_{-0.0023}$
A^{kSZ}	1.24	$4.81^{+3.8}_{-4.2}$	Ω_m	0.3153	$0.308^{+0.043}_{-0.042}$			

Best-fit $\chi_{\text{eff}}^2 = 8497.52$; R-1 = 0.00598

χ_{eff}^2 : CMB - CamSpec: 7806.70 highL: 690.57

3.27 base_Alens_planck_tauprior_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02221^{+0.00062}_{-0.00061}$	β_1^1	0.45	$0.3^{+1.1}_{-1.1}$	σ_8	0.8312	$0.822^{+0.029}_{-0.031}$
$\Omega_c h^2$	0.1194	$0.1183^{+0.0066}_{-0.0065}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.7^{+1.2}_{-1.1}$	z_{re}	11.57	$11.0^{+2.0}_{-2.3}$
$100\theta_{\text{MC}}$	1.04135	$1.0415^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.1	$76.9^{+8.3}_{-8.9}$	H_0	67.55	$68.0^{+3.1}_{-3.0}$
τ	0.0955	$0.090^{+0.024}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.49	$7.86^{+3.0}_{-2.9}$	$10^9 A_s$	2.220	$2.19^{+0.11}_{-0.12}$
A_L	1.002	$1.03^{+0.15}_{-0.14}$	$A_{150}^{\text{PS, SPT}}$	9.95	$10.26^{+0.95}_{-0.99}$	$\Omega_m h^2$	0.1422	$0.1412^{+0.0063}_{-0.0061}$
n_s	0.9582	$0.960^{+0.018}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	73.1	75^{+9}_{-9}	$\Omega_m h^3$	0.09602	$0.0960^{+0.0011}_{-0.0010}$
$\ln(10^{10} A_s)$	3.0999	$3.087^{+0.048}_{-0.051}$	$r_{95 \times 150}^{\text{PS}}$	0.798	> 0.686	Y_P	0.247745	$0.24777^{+0.00026}_{-0.00027}$
A_{100}^{PS}	213	213^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.544	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.828^{+0.030}_{-0.030}$
A_{143}^{PS}	74.5	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9084	$0.935^{+0.048}_{-0.043}$	Age/Gyr	13.804	$13.79^{+0.11}_{-0.12}$
A_{217}^{PS}	61.1	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.436	$0.43^{+0.35}_{-0.40}$	z_*	1090.25	$1090.1^{+1.3}_{-1.3}$
A_{143}^{CIB}	3.20	$3.24^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.40}_{-0.38}$	r_*	144.75	$145.0^{+1.4}_{-1.4}$
A_{217}^{CIB}	52.4	50^{+9}_{-10}	y_{148}^{ACTs}	0.9911	$0.992^{+0.015}_{-0.014}$	$100\theta_*$	1.04150	$1.0416^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	4.58	< 4.96	y_{217}^{ACTs}	1.0023	$1.007^{+0.027}_{-0.025}$	z_{drag}	1059.44	$1059.5^{+1.1}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.824	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9872	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.50	$147.7^{+1.3}_{-1.3}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.846	y_{217}^{ACTe}	0.9607	$0.964^{+0.019}_{-0.020}$	k_D	0.14017	$0.1400^{+0.0012}_{-0.0013}$
γ^{CIB}	0.658	$0.64^{+0.15}_{-0.15}$	y_{95}^{SPT}	0.9832	$0.985^{+0.039}_{-0.038}$	$100\theta_D$	0.16126	$0.16125^{+0.00070}_{-0.00064}$
c_{100}	1.00059	$1.00060^{+0.00081}_{-0.00079}$	y_{150}^{SPT}	0.9846	$0.989^{+0.019}_{-0.020}$	z_{eq}	3382	3358^{+150}_{-150}
c_{217}	0.99724	$0.9973^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0173	$1.026^{+0.046}_{-0.046}$	$100\theta_{\text{eq}}$	0.8167	$0.821^{+0.030}_{-0.028}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.836	Ω_Λ	0.6884	$0.694^{+0.038}_{-0.042}$	$r_{\text{drag}}/D_V(0.57)$	0.07162	$0.0720^{+0.0024}_{-0.0022}$
A^{kSZ}	1.24	$4.73^{+3.7}_{-4.5}$	Ω_m	0.3116	$0.306^{+0.042}_{-0.038}$			

Best-fit $\chi^2_{\text{eff}} = 8509.53$; R-1 = 0.08654

χ^2_{eff} : CMB - lensing: 10.24 CamSpec: 7807.75 highL: 691.24

4 Aphihi

4.1 base_Aphihi_planck_lowl_lowLike_highL_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02216^{+0.00052}_{-0.00051}$	β_1^1	0.42	$0.4^{+1.1}_{-1.1}$	σ_8	0.8297	$0.825^{+0.024}_{-0.024}$
$\Omega_c h^2$	0.11913	$0.1189^{+0.0049}_{-0.0048}$	$A_{148}^{\text{PS, ACT}}$	10.44	$10.7^{+1.2}_{-1.1}$	z_{re}	11.44	$11.1^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04137	$1.0414^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	75.8	77^{+9}_{-9}	H_0	67.65	$67.8^{+2.2}_{-2.2}$
τ	0.0942	$0.091^{+0.027}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.47	$7.85^{+3.0}_{-2.9}$	$10^9 A_s$	2.211	$2.19^{+0.11}_{-0.11}$
n_s	0.9611	$0.961^{+0.013}_{-0.013}$	$A_{150}^{\text{PS, SPT}}$	9.95	$10.2^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14195	$0.1417^{+0.0047}_{-0.0046}$
$\ln(10^{10} A_s)$	3.0963	$3.088^{+0.051}_{-0.047}$	$A_{220}^{\text{PS, SPT}}$	73.0	75^{+9}_{-9}	$\Omega_m h^3$	0.09603	$0.0960^{+0.0011}_{-0.0011}$
$A_L^{\phi\phi}$	0.978	$0.99^{+0.11}_{-0.10}$	$r_{95 \times 150}^{\text{PS}}$	0.804	> 0.685	Y_P	0.247755	$0.24775^{+0.00022}_{-0.00022}$
A_{100}^{PS}	204	214^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.555	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8316	$1.830^{+0.024}_{-0.023}$
A_{143}^{PS}	71.8	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9076	$0.934^{+0.047}_{-0.044}$	Age/Gyr	13.800	$13.798^{+0.087}_{-0.090}$
A_{217}^{PS}	58.8	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.43^{+0.36}_{-0.39}$	z_*	1090.20	$1090.19^{+0.95}_{-0.95}$
A_{143}^{CIB}	3.29	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.839	$0.84^{+0.39}_{-0.39}$	r_*	144.80	$144.9^{+1.1}_{-1.1}$
A_{217}^{CIB}	53.2	50^{+10}_{-10}	y_{148}^{ACTs}	0.9921	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04152	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.76	< 4.96	y_{217}^{ACTs}	1.0032	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.823	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9883	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.53	$147.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9618	$0.965^{+0.020}_{-0.020}$	k_D	0.14015	$0.1401^{+0.0012}_{-0.0012}$
γ^{CIB}	0.670	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9849	$0.985^{+0.040}_{-0.037}$	$100\theta_D$	0.16124	$0.16128^{+0.00063}_{-0.00061}$
c_{100}	1.00061	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9860	$0.989^{+0.019}_{-0.018}$	z_{eq}	3377	3371^{+110}_{-110}
c_{217}	0.99729	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0182	$1.026^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8177	$0.819^{+0.021}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.819	Ω_Λ	0.6899	$0.691^{+0.029}_{-0.031}$	$r_{\text{drag}}/D_V(0.57)$	0.07170	$0.0718^{+0.0017}_{-0.0016}$
A^{kSZ}	0.97	$4.71^{+3.7}_{-4.4}$	Ω_m	0.3101	$0.309^{+0.031}_{-0.029}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.33$; R-1 =0.00870

χ_{eff}^2 : CMB - lowLike: 2014.49 lensing: 9.61 lowl: -6.52 CamSpec: 7808.50 highL: 691.17

5 alpha1

5.1 base_alpha1_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02216^{+0.00058}_{-0.00055}$	$r_{143 \times 217}^{\text{CIB}}$	0.446	< 0.815	$\Omega_m h^3$	0.09607	$0.0961^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.1211	$0.1215^{+0.0055}_{-0.0054}$	γ^{CIB}	0.546	$0.53^{+0.23}_{-0.26}$	Y_P	0.247727	$0.24775^{+0.00025}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04097	$1.0407^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8481	$1.848^{+0.029}_{-0.029}$
τ	0.0912	$0.096^{+0.029}_{-0.028}$	c_{217}	0.99650	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.827	$13.830^{+0.094}_{-0.096}$
α_{-1}	-0.0007	$-0.0033^{+0.0043}_{-0.0058}$	$\xi^{\text{tSZ-CIB}}$	0.19	—	z_*	1090.45	$1090.4^{+1.1}_{-1.0}$
n_s	0.9570	$0.950^{+0.018}_{-0.017}$	A^{kSZ}	0.9	—	r_*	144.33	$144.2^{+1.3}_{-1.2}$
$\ln(10^{10} A_s)$	3.099	$3.109^{+0.059}_{-0.054}$	β_1^1	0.71	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04112	$1.0409^{+0.0014}_{-0.0014}$
A_{100}^{PS}	162	177^{+100}_{-100}	Ω_Λ	0.6771	$0.674^{+0.033}_{-0.036}$	z_{drag}	1059.47	$1059.6^{+1.2}_{-1.2}$
A_{143}^{PS}	68.7	53^{+30}_{-30}	Ω_m	0.3229	$0.326^{+0.036}_{-0.033}$	r_{drag}	147.07	$146.9^{+1.3}_{-1.3}$
A_{217}^{PS}	121.3	105^{+30}_{-40}	σ_8	0.8333	$0.834^{+0.026}_{-0.025}$	k_D	0.14058	$0.1408^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	0.0	—	z_{re}	11.25	$11.6^{+2.4}_{-2.3}$	$100\theta_D$	0.16121	$0.16108^{+0.00072}_{-0.00072}$
A_{217}^{CIB}	25	30^{+20}_{-10}	H_0	66.76	$66.6^{+2.4}_{-2.4}$	z_{eq}	3423	3433^{+130}_{-120}
A_{143}^{tSZ}	5.31	—	$10^9 A_s$	2.218	$2.24^{+0.13}_{-0.13}$	$100\theta_{\text{eq}}$	0.8089	$0.807^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.903	> 0.726	$\Omega_m h^2$	0.1439	$0.1443^{+0.0052}_{-0.0051}$	$r_{\text{drag}}/D_V(0.57)$	0.07099	$0.0708^{+0.0019}_{-0.0018}$

Best-fit $\chi_{\text{eff}}^2 = 9804.48$; R-1 = 0.00835

χ_{eff}^2 : CMB - lowLike: 2014.36 lowl: -8.79 CamSpec: 7798.32

5.2 base_alpha1_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02231^{+0.00056}_{-0.00055}$	$r_{143 \times 217}^{\text{CIB}}$	0.693	< 0.815	$\Omega_m h^3$	0.09616	$0.0961^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.11881	$0.1193^{+0.0044}_{-0.0045}$	γ^{CIB}	0.544	$0.53^{+0.24}_{-0.27}$	Y_P	0.247811	$0.24781^{+0.00024}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04123	$1.0410^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00060^{+0.00080}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8383	$1.838^{+0.023}_{-0.024}$
τ	0.0928	$0.094^{+0.028}_{-0.027}$	c_{217}	0.99646	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.789	$13.798^{+0.088}_{-0.090}$
α_{-1}	-0.00054	$-0.0027^{+0.0040}_{-0.0053}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.00	$1090.05^{+0.95}_{-0.95}$
n_s	0.9632	$0.956^{+0.017}_{-0.016}$	A^{kSZ}	0.9	—	r_*	144.78	$144.6^{+1.1}_{-1.0}$
$\ln(10^{10} A_s)$	3.097	$3.099^{+0.052}_{-0.051}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04137	$1.0411^{+0.0013}_{-0.0013}$
A_{100}^{PS}	146	175^{+100}_{-100}	Ω_Λ	0.6919	$0.688^{+0.027}_{-0.028}$	z_{drag}	1059.78	$1059.8^{+1.2}_{-1.2}$
A_{143}^{PS}	62.2	50^{+30}_{-30}	Ω_m	0.3081	$0.312^{+0.028}_{-0.027}$	r_{drag}	147.47	$147.3^{+1.1}_{-1.1}$
A_{217}^{PS}	119.8	102^{+30}_{-40}	σ_8	0.8269	$0.824^{+0.019}_{-0.020}$	k_D	0.14031	$0.1405^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	0.0	—	z_{re}	11.27	$11.3^{+2.2}_{-2.2}$	$100\theta_D$	0.16105	$0.16099^{+0.00073}_{-0.00070}$
A_{217}^{CIB}	24	30^{+20}_{-20}	H_0	67.83	$67.6^{+2.1}_{-2.0}$	z_{eq}	3372	3384^{+100}_{-100}
A_{143}^{tSZ}	6.24	—	$10^9 A_s$	2.213	$2.22^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8188	$0.817^{+0.020}_{-0.020}$
$r_{143 \times 217}^{\text{PS}}$	0.909	> 0.714	$\Omega_m h^2$	0.14176	$0.1423^{+0.0042}_{-0.0043}$	$r_{\text{drag}}/D_V(0.57)$	0.07178	$0.0716^{+0.0016}_{-0.0015}$

Best-fit $\chi_{\text{eff}}^2 = 9814.77$; R-1 = 0.01834

χ_{eff}^2 : CMB - lowLike: 2014.26 lensing: 9.88 lowl: -9.15 CamSpec: 7799.18

5.3 base_alpha1_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02224	$0.02229^{+0.00054}_{-0.00053}$	$r_{143 \times 217}^{\text{CIB}}$	0.549	< 0.808	$\Omega_m h^3$	0.09607	$0.0961^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.11896	$0.1193^{+0.0035}_{-0.0034}$	γ^{CIB}	0.551	$0.53^{+0.24}_{-0.26}$	Y_P	0.247785	$0.24780^{+0.00023}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04123	$1.0411^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00060^{+0.00079}_{-0.00080}$	$10^9 A_s e^{-2\tau}$	1.8382	$1.838^{+0.021}_{-0.021}$
τ	0.0931	$0.099^{+0.030}_{-0.029}$	c_{217}	0.99644	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.796	$13.797^{+0.075}_{-0.074}$
α_{-1}	-0.00048	$-0.0027^{+0.0040}_{-0.0053}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1090.09	$1090.07^{+0.82}_{-0.80}$
n_s	0.9630	$0.956^{+0.014}_{-0.013}$	A^{kSZ}	0.6	—	r_*	144.79	$144.67^{+0.90}_{-0.89}$
$\ln(10^{10} A_s)$	3.098	$3.109^{+0.061}_{-0.055}$	β_1^1	0.71	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04138	$1.0412^{+0.0012}_{-0.0012}$
A_{100}^{PS}	153	174^{+100}_{-100}	Ω_Λ	0.6908	$0.689^{+0.020}_{-0.022}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
A_{143}^{PS}	64.7	52^{+30}_{-30}	Ω_m	0.3092	$0.311^{+0.022}_{-0.020}$	r_{drag}	147.50	$147.36^{+0.98}_{-0.96}$
A_{217}^{PS}	121.0	104^{+30}_{-40}	σ_8	0.8273	$0.829^{+0.025}_{-0.024}$	k_D	0.14024	$0.1404^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.32	$11.8^{+2.3}_{-2.3}$	$100\theta_D$	0.16113	$0.16103^{+0.00073}_{-0.00071}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	67.73	$67.6^{+1.5}_{-1.6}$	z_{eq}	3374	3383^{+82}_{-79}
A_{143}^{tSZ}	6.06	—	$10^9 A_s$	2.214	$2.24^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8182	$0.817^{+0.015}_{-0.015}$
$r_{143 \times 217}^{\text{PS}}$	0.912	> 0.725	$\Omega_m h^2$	0.14185	$0.1422^{+0.0034}_{-0.0033}$	$r_{\text{drag}}/D_V(0.57)$	0.07173	$0.0716^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9806.49$; R-1 = 0.01545

χ_{eff}^2 : BAO - DR9: 0.22 DR7: 1.29 6DF: 0.01 CMB - lowLike: 2014.30 lowl: -9.05 CamSpec: 7799.17

5.4 base_alpha1_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02233	$0.02238^{+0.00059}_{-0.00056}$	$r_{143 \times 217}^{\text{CIB}}$	0.683	< 0.808	$\Omega_m h^3$	0.09622	$0.0962^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.11868	$0.1183^{+0.0049}_{-0.0049}$	γ^{CIB}	0.535	$0.53^{+0.24}_{-0.26}$	Y_P	0.247821	$0.24784^{+0.00025}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04133	$1.0413^{+0.0013}_{-0.0013}$	c_{100}	1.00062	$1.00060^{+0.00079}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8382	$1.833^{+0.027}_{-0.027}$
τ	0.0930	$0.101^{+0.031}_{-0.030}$	c_{217}	0.99654	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.784	$13.778^{+0.089}_{-0.092}$
α_{-1}	-0.00073	$-0.0026^{+0.0042}_{-0.0056}$	$\xi^{\text{tSZ-CIB}}$	0.20	—	z_*	1089.96	$1089.86^{+0.96}_{-1.0}$
n_s	0.9628	$0.959^{+0.018}_{-0.016}$	A^{kSZ}	0.8	—	r_*	144.80	$144.9^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.097	$3.111^{+0.062}_{-0.057}$	β_1^1	0.70	$0.5^{+1.1}_{-1.2}$	$100\theta_*$	1.04146	$1.0414^{+0.0013}_{-0.0013}$
A_{100}^{PS}	163	173^{+100}_{-100}	Ω_Λ	0.6930	$0.695^{+0.028}_{-0.030}$	z_{drag}	1059.82	$1059.9^{+1.2}_{-1.2}$
A_{143}^{PS}	66.5	51^{+30}_{-30}	Ω_m	0.3070	$0.305^{+0.030}_{-0.030}$	r_{drag}	147.48	$147.5^{+1.2}_{-1.2}$
A_{217}^{PS}	120.7	104^{+30}_{-40}	σ_8	0.8254	$0.827^{+0.027}_{-0.025}$	k_D	0.14032	$0.1403^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	0.0	—	z_{re}	11.28	$11.9^{+2.3}_{-2.3}$	$100\theta_D$	0.16103	$0.16097^{+0.00075}_{-0.00072}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	67.93	$68.1^{+2.3}_{-2.2}$	z_{eq}	3369	3362^{+110}_{-110}
A_{143}^{tSZ}	5.30	—	$10^9 A_s$	2.214	$2.25^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8194	$0.821^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.899	> 0.724	$\Omega_m h^2$	0.14165	$0.1413^{+0.0047}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07185	$0.0720^{+0.0017}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 9811.32$; R-1 = 0.02695

χ_{eff}^2 : CMB - lowLike: 2014.24 lowl: -9.32 CamSpec: 7799.77 Hubble - HST: 5.95

5.5 base_alpha1_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02229^{+0.00058}_{-0.00055}$	$r_{143 \times 217}^{\text{CIB}}$	0.462	< 0.810	$\Omega_m h^3$	0.09612	$0.0961^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.1197	$0.1194^{+0.0051}_{-0.0051}$	γ^{CIB}	0.553	$0.53^{+0.24}_{-0.26}$	Y_P	0.247771	$0.24780^{+0.00024}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04120	$1.0411^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00060^{+0.00080}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8419	$1.838^{+0.027}_{-0.028}$
τ	0.0924	$0.099^{+0.030}_{-0.029}$	c_{217}	0.99642	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.803	$13.798^{+0.092}_{-0.094}$
α_{-1}	-0.00049	$-0.0027^{+0.0042}_{-0.0056}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.19	$1090.07^{+0.99}_{-0.99}$
n_s	0.9613	$0.956^{+0.018}_{-0.017}$	A^{kSZ}	0.0	—	r_*	144.63	$144.7^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.098	$3.110^{+0.060}_{-0.056}$	β_1^1	0.71	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04134	$1.0412^{+0.0013}_{-0.0013}$
A_{100}^{PS}	159	174^{+100}_{-100}	Ω_Λ	0.6866	$0.688^{+0.030}_{-0.032}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
A_{143}^{PS}	67.8	52^{+30}_{-30}	Ω_m	0.3134	$0.312^{+0.032}_{-0.030}$	r_{drag}	147.35	$147.3^{+1.3}_{-1.2}$
A_{217}^{PS}	121.9	105^{+30}_{-40}	σ_8	0.8295	$0.829^{+0.027}_{-0.026}$	k_D	0.14037	$0.1404^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	0.0	—	z_{re}	11.29	$11.8^{+2.4}_{-2.3}$	$100\theta_D$	0.16114	$0.16103^{+0.00074}_{-0.00072}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	67.43	$67.6^{+2.3}_{-2.2}$	z_{eq}	3390	3385^{+120}_{-120}
A_{143}^{tSZ}	5.68	—	$10^9 A_s$	2.216	$2.24^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8152	$0.817^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.905	> 0.726	$\Omega_m h^2$	0.14253	$0.1423^{+0.0048}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.07150	$0.0716^{+0.0018}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 10234.40$; R-1 = 0.01563

χ_{eff}^2 : CMB - lowLike: 2014.31 lowl: -8.92 CamSpec: 7798.76 SN - SNLS: 429.71

5.6 base_alpha1_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02222^{+0.00059}_{-0.00056}$	$r_{143 \times 217}^{\text{CIB}}$	0.383	< 0.812	$\Omega_m h^3$	0.09609	$0.0961^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.1199	$0.1207^{+0.0051}_{-0.0051}$	γ^{CIB}	0.528	$0.53^{+0.24}_{-0.26}$	Y_P	0.247765	$0.24777^{+0.00025}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04112	$1.0408^{+0.0013}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8426	$1.844^{+0.028}_{-0.028}$
τ	0.0917	$0.097^{+0.030}_{-0.027}$	c_{217}	0.99643	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.808	$13.817^{+0.092}_{-0.092}$
α_{-1}	-0.00062	$-0.0031^{+0.0043}_{-0.0057}$	$\xi^{\text{tSZ-CIB}}$	0.12	—	z_*	1090.23	$1090.3^{+1.0}_{-0.99}$
n_s	0.9605	$0.953^{+0.018}_{-0.017}$	A^{kSZ}	0.5	—	r_*	144.58	$144.4^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.097	$3.109^{+0.059}_{-0.054}$	β_1^1	0.74	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04126	$1.0410^{+0.0013}_{-0.0014}$
A_{100}^{PS}	158	176^{+100}_{-100}	Ω_Λ	0.6849	$0.680^{+0.031}_{-0.033}$	z_{drag}	1059.59	$1059.7^{+1.2}_{-1.2}$
A_{143}^{PS}	66.3	53^{+30}_{-30}	Ω_m	0.3151	$0.320^{+0.033}_{-0.031}$	r_{drag}	147.30	$147.1^{+1.3}_{-1.2}$
A_{217}^{PS}	123.2	105^{+30}_{-40}	σ_8	0.8293	$0.832^{+0.026}_{-0.025}$	k_D	0.14041	$0.1406^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	0.0	—	z_{re}	11.23	$11.7^{+2.4}_{-2.3}$	$100\theta_D$	0.16114	$0.16106^{+0.00072}_{-0.00072}$
A_{217}^{CIB}	24	30^{+20}_{-10}	H_0	67.31	$67.0^{+2.3}_{-2.3}$	z_{eq}	3396	3414^{+120}_{-120}
A_{143}^{tSZ}	5.99	—	$10^9 A_s$	2.213	$2.24^{+0.13}_{-0.13}$	$100\theta_{\text{eq}}$	0.8141	$0.811^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.891	> 0.727	$\Omega_m h^2$	0.14275	$0.1435^{+0.0049}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07141	$0.0711^{+0.0018}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 9935.11$; R-1 = 0.01060

χ_{eff}^2 : CMB - lowLike: 2014.30 lowl: -9.06 CamSpec: 7798.57 SN - Union2.1: 130.56

5.7 base_alpha1_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02210	$0.02220^{+0.00056}_{-0.00053}$	β_1^1	0.52	$0.5^{+1.1}_{-1.1}$	σ_8	0.8330	$0.834^{+0.025}_{-0.024}$
$\Omega_c h^2$	0.1218	$0.1217^{+0.0055}_{-0.0054}$	$A_{148}^{\text{PS, ACT}}$	10.23	$10.5^{+1.2}_{-1.1}$	z_{re}	11.36	$11.8^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04072	$1.0407^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	75.5	77^{+9}_{-9}	H_0	66.44	$66.6^{+2.4}_{-2.4}$
τ	0.0923	$0.098^{+0.029}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	7.21	$7.70^{+3.0}_{-2.8}$	$10^9 A_s$	2.221	$2.25^{+0.13}_{-0.12}$
α_{-1}	-0.0013	$-0.0039^{+0.0046}_{-0.0059}$	$A_{150}^{\text{PS, SPT}}$	9.73	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1446	$0.1446^{+0.0053}_{-0.0051}$
n_s	0.9501	$0.948^{+0.017}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	72.1	74^{+9}_{-9}	$\Omega_m h^3$	0.09606	$0.0962^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.101	$3.113^{+0.057}_{-0.052}$	$r_{95 \times 150}^{\text{PS}}$	0.806	> 0.684	Y_P	0.247725	$0.24777^{+0.00024}_{-0.00023}$
A_{100}^{PS}	207	221^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.566	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8468	$1.848^{+0.029}_{-0.028}$
A_{143}^{PS}	73.7	74^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9120	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.837	$13.828^{+0.091}_{-0.094}$
A_{217}^{PS}	61.0	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.416	$0.43^{+0.36}_{-0.39}$	z_*	1090.53	$1090.4^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.34	$3.25^{+1.7}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.840	$0.85^{+0.39}_{-0.39}$	r_*	144.15	$144.1^{+1.3}_{-1.3}$
A_{217}^{CIB}	53.2	50^{+10}_{-10}	y_{148}^{ACTs}	0.9908	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04088	$1.0408^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.92	< 4.96	y_{217}^{ACTs}	1.0024	$1.005^{+0.026}_{-0.026}$	z_{drag}	1059.51	$1059.7^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.827	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9869	$0.988^{+0.014}_{-0.014}$	r_{drag}	146.90	$146.8^{+1.3}_{-1.3}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9605	$0.964^{+0.020}_{-0.020}$	k_D	0.14076	$0.1409^{+0.0014}_{-0.0014}$
γ^{CIB}	0.670	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9853	$0.984^{+0.040}_{-0.037}$	$100\theta_D$	0.16116	$0.16101^{+0.00069}_{-0.00068}$
c_{100}	1.00061	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9843	$0.987^{+0.019}_{-0.018}$	z_{eq}	3440	3439^{+130}_{-120}
c_{217}	0.99732	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0150	$1.024^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8058	$0.806^{+0.023}_{-0.023}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6724	$0.673^{+0.035}_{-0.036}$	$r_{\text{drag}}/D_V(0.57)$	0.07073	$0.0708^{+0.0018}_{-0.0018}$
A^{kSZ}	1.40	$5.31^{+4.0}_{-4.5}$	Ω_m	0.3276	$0.327^{+0.036}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10506.89$; R-1 = 0.00720

χ_{eff}^2 : CMB - lowLike: 2014.39 lowl: -8.90 CamSpec: 7808.64 highL: 692.69

5.8 base_alpha1_planck_lowL_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02231	$0.02232^{+0.00054}_{-0.00054}$	β_1	0.45	$0.4^{+1.1}_{-1.1}$	σ_8	0.8261	$0.825^{+0.019}_{-0.018}$
$\Omega_c h^2$	0.11931	$0.1195^{+0.0045}_{-0.0042}$	$A_{148}^{\text{PS, ACT}}$	10.44	$10.7^{+1.2}_{-1.1}$	z_{re}	11.44	$11.5^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04108	$1.0409^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	H_0	67.60	$67.5^{+2.0}_{-2.0}$
τ	0.0947	$0.095^{+0.029}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.56	$7.93^{+3.0}_{-2.9}$	$10^9 A_s$	2.220	$2.23^{+0.12}_{-0.11}$
α_{-1}	-0.00144	$-0.0032^{+0.0040}_{-0.0053}$	$A_{150}^{\text{PS, SPT}}$	9.98	$10.3^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14226	$0.1425^{+0.0042}_{-0.0040}$
n_s	0.9559	$0.953^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	73.3	75^{+9}_{-9}	$\Omega_m h^3$	0.09617	$0.0962^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.100	$3.102^{+0.053}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.797	> 0.687	Y_P	0.247812	$0.24782^{+0.00023}_{-0.00023}$
A_{100}^{PS}	209	220^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.543	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8366	$1.838^{+0.023}_{-0.022}$
A_{143}^{PS}	72.9	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9076	$0.934^{+0.047}_{-0.046}$	Age/Gyr	13.796	$13.799^{+0.085}_{-0.089}$
A_{217}^{PS}	60.0	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.422	$0.43^{+0.37}_{-0.39}$	z_*	1090.04	$1090.04^{+0.90}_{-0.92}$
A_{143}^{CIB}	3.22	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.841	$0.85^{+0.38}_{-0.40}$	r_*	144.65	$144.6^{+1.0}_{-1.0}$
A_{217}^{CIB}	52.5	50^{+10}_{-9}	y_{148}^{ACTs}	0.9916	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04122	$1.0411^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	4.58	< 4.83	y_{217}^{ACTs}	1.0034	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.82	$1059.9^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9879	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.34	$147.3^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.845	y_{217}^{ACTe}	0.9618	$0.965^{+0.020}_{-0.020}$	k_D	0.14045	$0.1405^{+0.0012}_{-0.0012}$
γ^{CIB}	0.659	$0.64^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9854	$0.985^{+0.041}_{-0.038}$	$100\theta_D$	0.16100	$0.16095^{+0.00069}_{-0.00067}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9862	$0.989^{+0.019}_{-0.019}$	z_{eq}	3384	3390^{+100}_{-95}
c_{217}	0.99730	$0.9974^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0182	$1.026^{+0.048}_{-0.046}$	$100\theta_{\text{eq}}$	0.8165	$0.816^{+0.019}_{-0.019}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6887	$0.687^{+0.026}_{-0.028}$	$r_{\text{drag}}/D_V(0.57)$	0.07160	$0.0715^{+0.0015}_{-0.0015}$
A^{kSZ}	1.20	$4.76^{+3.6}_{-4.1}$	Ω_m	0.3113	$0.313^{+0.028}_{-0.026}$			

Best-fit $\chi^2_{\text{eff}} = 10515.45$; R-1 = 0.02939

χ^2_{eff} : CMB - lowLike: 2014.30 lensing: 9.73 lowL: -9.45 CamSpec: 7809.84 highL: 690.94

5.9 base_alpha1_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02228	$0.02233^{+0.00052}_{-0.00050}$	β_1	0.50	$0.4^{+1.1}_{-1.1}$	σ_8	0.8261	$0.829^{+0.024}_{-0.023}$
$\Omega_c h^2$	0.11936	$0.1193^{+0.0035}_{-0.0034}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.6^{+1.2}_{-1.1}$	z_{re}	11.52	$12.0^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04109	$1.0410^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.1	77^{+9}_{-9}	H_0	67.57	$67.6^{+1.5}_{-1.6}$
τ	0.0956	$0.101^{+0.030}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.34	$7.71^{+3.0}_{-2.9}$	$10^9 A_s$	2.223	$2.25^{+0.14}_{-0.12}$
α_{-1}	-0.00149	$-0.0032^{+0.0042}_{-0.0055}$	$A_{150}^{\text{PS, SPT}}$	9.79	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14228	$0.1423^{+0.0035}_{-0.0033}$
n_s	0.9554	$0.954^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	73.0	74^{+9}_{-9}	$\Omega_m h^3$	0.09614	$0.0962^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.101	$3.113^{+0.059}_{-0.055}$	$r_{95 \times 150}^{\text{PS}}$	0.800	> 0.683	Y_P	0.247802	$0.24782^{+0.00022}_{-0.00022}$
A_{100}^{PS}	213	217^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.548	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8363	$1.837^{+0.020}_{-0.020}$
A_{143}^{PS}	72.8	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9095	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.798	$13.795^{+0.073}_{-0.074}$
A_{217}^{PS}	60.5	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.445	$0.43^{+0.36}_{-0.39}$	z_*	1090.08	$1090.02^{+0.79}_{-0.79}$
A_{143}^{CIB}	3.28	$3.25^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.841	$0.85^{+0.40}_{-0.39}$	r_*	144.65	$144.63^{+0.88}_{-0.89}$
A_{217}^{CIB}	52.5	50^{+10}_{-10}	y_{148}^{ACTs}	0.9918	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04123	$1.0412^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.74	< 4.99	y_{217}^{ACTs}	1.0030	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.74	$1059.9^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.821	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9875	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.35	$147.31^{+0.95}_{-0.95}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9611	$0.965^{+0.020}_{-0.020}$	k_D	0.14042	$0.1405^{+0.0012}_{-0.0012}$
γ^{CIB}	0.658	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9859	$0.985^{+0.040}_{-0.037}$	$100\theta_D$	0.16104	$0.16097^{+0.00069}_{-0.00069}$
c_{100}	1.00060	$1.00059^{+0.00077}_{-0.00079}$	y_{150}^{SPT}	0.9848	$0.988^{+0.019}_{-0.019}$	z_{eq}	3384	3385^{+83}_{-80}
c_{217}	0.99730	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0190	$1.025^{+0.048}_{-0.043}$	$100\theta_{\text{eq}}$	0.8164	$0.816^{+0.015}_{-0.015}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6884	$0.688^{+0.020}_{-0.022}$	$r_{\text{drag}}/D_V(0.57)$	0.07158	$0.0716^{+0.0012}_{-0.0012}$
A^{kSZ}	1.59	$5.31^{+3.9}_{-4.5}$	Ω_m	0.3116	$0.312^{+0.022}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.04$; R-1 = 0.01166

χ_{eff}^2 : BAO - DR7: 1.63 DR9: 0.11 6DF: 0.00 CMB - lowLike: 2014.35 lowl: -9.45 CamSpec: 7809.85 highL: 692.40

5.10 base_alpha1_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02237	$0.02241^{+0.00054}_{-0.00053}$	β_1	0.44	$0.4^{+1.1}_{-1.1}$	σ_8	0.8248	$0.827^{+0.025}_{-0.024}$
$\Omega_c h^2$	0.11870	$0.1185^{+0.0049}_{-0.0047}$	$A_{148}^{\text{PS, ACT}}$	10.32	$10.6^{+1.1}_{-1.1}$	z_{re}	11.62	$12.1^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04125	$1.0412^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.4	77^{+9}_{-9}	H_0	67.93	$68.0^{+2.2}_{-2.2}$
τ	0.0972	$0.103^{+0.030}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	7.45	$7.74^{+3.0}_{-2.9}$	$10^9 A_s$	2.227	$2.26^{+0.14}_{-0.12}$
α_{-1}	-0.00159	$-0.0032^{+0.0042}_{-0.0055}$	$A_{150}^{\text{PS, SPT}}$	9.86	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14171	$0.1416^{+0.0047}_{-0.0046}$
n_s	0.9569	$0.956^{+0.015}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	73.4	75^{+9}_{-9}	$\Omega_m h^3$	0.09626	$0.0963^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.103	$3.116^{+0.059}_{-0.056}$	$r_{95 \times 150}^{\text{PS}}$	0.788	> 0.684	Y_P	0.247838	$0.24786^{+0.00023}_{-0.00023}$
A_{100}^{PS}	206	215^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.540	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8339	$1.833^{+0.026}_{-0.025}$
A_{143}^{PS}	71.9	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9120	$0.937^{+0.046}_{-0.044}$	Age/Gyr	13.782	$13.778^{+0.087}_{-0.086}$
A_{217}^{PS}	59.8	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.43^{+0.36}_{-0.40}$	z_*	1089.91	$1089.84^{+0.94}_{-0.92}$
A_{143}^{CIB}	3.13	$3.25^{+1.7}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.84^{+0.38}_{-0.39}$	r_*	144.76	$144.8^{+1.2}_{-1.2}$
A_{217}^{CIB}	52.0	50^{+10}_{-10}	y_{148}^{ACTs}	0.9920	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04139	$1.0413^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.44	< 4.99	y_{217}^{ACTs}	1.0036	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.89	$1060.0^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9878	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.43	$147.4^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.846	y_{217}^{ACTe}	0.9619	$0.965^{+0.020}_{-0.020}$	k_D	0.14040	$0.1404^{+0.0013}_{-0.0014}$
γ^{CIB}	0.656	$0.64^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9848	$0.986^{+0.040}_{-0.037}$	$100\theta_D$	0.16097	$0.16090^{+0.00069}_{-0.00068}$
c_{100}	1.00060	$1.00059^{+0.00076}_{-0.00078}$	y_{150}^{SPT}	0.9860	$0.989^{+0.019}_{-0.018}$	z_{eq}	3371	3367^{+110}_{-110}
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0176	$1.025^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8192	$0.820^{+0.021}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.01	—	Ω_Λ	0.6929	$0.694^{+0.028}_{-0.031}$	$r_{\text{drag}}/D_V(0.57)$	0.07183	$0.0719^{+0.0017}_{-0.0017}$
A^{kSZ}	2.10	$5.29^{+3.7}_{-4.4}$	Ω_m	0.3071	$0.306^{+0.031}_{-0.028}$			

Best-fit $\chi_{\text{eff}}^2 = 10513.69$; R-1 = 0.02390

χ_{eff}^2 : CMB - lowLike: 2014.38 lowl: -9.57 CamSpec: 7810.72 highL: 692.08 Hubble - HST: 5.95

5.11 base_alpha1_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02228	$0.02232^{+0.00055}_{-0.00054}$	β_1	0.47	$0.4^{+1.1}_{-1.1}$	σ_8	0.8265	$0.829^{+0.025}_{-0.025}$
$\Omega_c h^2$	0.1195	$0.1195^{+0.0051}_{-0.0049}$	$A_{148}^{\text{PS, ACT}}$	10.31	$10.6^{+1.2}_{-1.1}$	z_{re}	11.54	$12.0^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04110	$1.0410^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	H_0	67.52	$67.5^{+2.2}_{-2.2}$
τ	0.0957	$0.101^{+0.030}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	7.41	$7.72^{+3.0}_{-2.9}$	$10^9 A_s$	2.225	$2.25^{+0.14}_{-0.12}$
α_{-1}	-0.00165	$-0.0034^{+0.0043}_{-0.0056}$	$A_{150}^{\text{PS, SPT}}$	9.85	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14242	$0.1425^{+0.0049}_{-0.0047}$
n_s	0.9548	$0.953^{+0.015}_{-0.016}$	$A_{220}^{\text{PS, SPT}}$	73.2	74^{+9}_{-9}	$\Omega_m h^3$	0.09616	$0.0962^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.102	$3.114^{+0.059}_{-0.054}$	$r_{95 \times 150}^{\text{PS}}$	0.790	> 0.684	Y_P	0.247802	$0.24782^{+0.00023}_{-0.00023}$
A_{100}^{PS}	209	217^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.542	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8371	$1.838^{+0.026}_{-0.025}$
A_{143}^{PS}	72.5	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9116	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.799	$13.797^{+0.088}_{-0.090}$
A_{217}^{PS}	60.5	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.43^{+0.36}_{-0.40}$	z_*	1090.09	$1090.04^{+0.96}_{-0.95}$
A_{143}^{CIB}	3.14	$3.25^{+1.7}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.84^{+0.39}_{-0.39}$	r_*	144.62	$144.6^{+1.2}_{-1.2}$
A_{217}^{CIB}	52.0	50^{+10}_{-10}	y_{148}^{ACTs}	0.9915	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04123	$1.0411^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.45	< 4.99	y_{217}^{ACTs}	1.0035	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.78	$1059.9^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.818	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9876	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.31	$147.3^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	0.9999	> 0.847	y_{217}^{ACTe}	0.9612	$0.965^{+0.020}_{-0.020}$	k_D	0.14046	$0.1405^{+0.0013}_{-0.0014}$
γ^{CIB}	0.656	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9845	$0.985^{+0.040}_{-0.037}$	$100\theta_D$	0.16103	$0.16096^{+0.00069}_{-0.00068}$
c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00078}$	y_{150}^{SPT}	0.9855	$0.988^{+0.019}_{-0.019}$	z_{eq}	3388	3389^{+120}_{-110}
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0174	$1.025^{+0.048}_{-0.043}$	$100\theta_{\text{eq}}$	0.8158	$0.816^{+0.021}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.01	—	Ω_Λ	0.6876	$0.687^{+0.029}_{-0.032}$	$r_{\text{drag}}/D_V(0.57)$	0.07154	$0.0715^{+0.0017}_{-0.0017}$
A^{kSZ}	2.10	$5.31^{+3.9}_{-4.5}$	Ω_m	0.3124	$0.313^{+0.032}_{-0.031}$			

Best-fit $\chi_{\text{eff}}^2 = 10936.74$; R-1 = 0.01185

χ_{eff}^2 : CMB - lowLike: 2014.35 lowl: -9.52 CamSpec: 7809.94 highL: 692.23 SN - SNLS: 429.62

5.12 base_alpha1_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02225^{+0.00055}_{-0.00053}$	β_1^1	0.44	$0.5^{+1.1}_{-1.1}$	σ_8	0.8300	$0.832^{+0.025}_{-0.024}$
$\Omega_c h^2$	0.1205	$0.1208^{+0.0052}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.30	$10.5^{+1.2}_{-1.1}$	z_{re}	11.51	$11.9^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04098	$1.0408^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.4	77^{+9}_{-9}	H_0	67.07	$67.0^{+2.3}_{-2.2}$
τ	0.0947	$0.099^{+0.030}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.37	$7.71^{+3.0}_{-2.9}$	$10^9 A_s$	2.224	$2.25^{+0.13}_{-0.12}$
α_{-1}	-0.0012	$-0.0037^{+0.0045}_{-0.0058}$	$A_{150}^{\text{PS, SPT}}$	9.83	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14328	$0.1437^{+0.0050}_{-0.0048}$
n_s	0.9533	$0.950^{+0.016}_{-0.016}$	$A_{220}^{\text{PS, SPT}}$	73.1	74^{+9}_{-9}	$\Omega_m h^3$	0.09610	$0.0962^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.102	$3.113^{+0.058}_{-0.053}$	$r_{95 \times 150}^{\text{PS}}$	0.793	> 0.683	Y_P	0.247759	$0.24779^{+0.00023}_{-0.00023}$
A_{100}^{PS}	207	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.545	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8403	$1.844^{+0.027}_{-0.026}$
A_{143}^{PS}	73.2	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9117	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.816	$13.816^{+0.088}_{-0.092}$
A_{217}^{PS}	61.4	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.36}_{-0.39}$	z_*	1090.30	$1090.25^{+0.97}_{-0.98}$
A_{143}^{CIB}	3.15	$3.25^{+1.7}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.847	$0.84^{+0.39}_{-0.39}$	r_*	144.45	$144.3^{+1.2}_{-1.2}$
A_{217}^{CIB}	51.8	50^{+10}_{-10}	y_{148}^{ACTs}	0.9911	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04113	$1.0409^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.47	< 4.98	y_{217}^{ACTs}	1.0026	$1.006^{+0.026}_{-0.026}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.82^{+0.15}_{-0.13}$	y_{148}^{ACTe}	0.9873	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.17	$147.0^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9611	$0.964^{+0.020}_{-0.020}$	k_D	0.14053	$0.1408^{+0.0013}_{-0.0014}$
γ^{CIB}	0.652	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9836	$0.984^{+0.040}_{-0.037}$	$100\theta_D$	0.16113	$0.16099^{+0.00069}_{-0.00068}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9846	$0.988^{+0.019}_{-0.018}$	z_{eq}	3408	3418^{+120}_{-120}
c_{217}	0.99736	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0159	$1.024^{+0.048}_{-0.043}$	$100\theta_{\text{eq}}$	0.8117	$0.810^{+0.022}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.01	—	Ω_Λ	0.6815	$0.679^{+0.031}_{-0.034}$	$r_{\text{drag}}/D_V(0.57)$	0.07121	$0.0711^{+0.0018}_{-0.0017}$
A^{kSZ}	2.06	$5.32^{+3.9}_{-4.5}$	Ω_m	0.3185	$0.321^{+0.034}_{-0.031}$			

Best-fit $\chi_{\text{eff}}^2 = 10637.45$; R-1 = 0.00792

χ_{eff}^2 : CMB - lowLike: 2014.42 lowl: -9.04 CamSpec: 7808.86 highL: 692.40 SN - Union2.1: 130.68

5.13 base_alpha1_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02235^{+0.00074}_{-0.00071}$	$r_{143 \times 217}^{\text{CIB}}$	0.553	< 0.793	$\Omega_m h^3$	0.09606	$0.0963^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1210	$0.1201^{+0.0067}_{-0.0065}$	γ^{CIB}	0.544	$0.53^{+0.24}_{-0.26}$	Y_P	0.247730	$0.24783^{+0.00031}_{-0.00030}$
$100\theta_{\text{MC}}$	1.04097	$1.0408^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8473	$1.842^{+0.033}_{-0.033}$
τ	0.091	$0.132^{+0.080}_{-0.089}$	c_{217}	0.99640	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.825	$13.80^{+0.12}_{-0.12}$
α_{-1}	-0.0006	$-0.0044^{+0.0057}_{-0.0075}$	$\xi^{\text{tSZ-CIB}}$	0.24	—	z_*	1090.43	$1090.1^{+1.4}_{-1.4}$
n_s	0.9578	$0.956^{+0.022}_{-0.021}$	A^{kSZ}	1.03	—	r_*	144.36	$144.4^{+1.4}_{-1.4}$
$\ln(10^{10} A_s)$	3.098	$3.18^{+0.15}_{-0.17}$	β_1^1	0.73	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04111	$1.0410^{+0.0014}_{-0.0014}$
A_{100}^{PS}	160	169^{+100}_{-100}	Ω_Λ	0.6780	$0.684^{+0.040}_{-0.044}$	z_{drag}	1059.47	$1060.0^{+1.5}_{-1.4}$
A_{143}^{PS}	67.0	51^{+30}_{-30}	Ω_m	0.3220	$0.316^{+0.044}_{-0.040}$	r_{drag}	147.10	$147.1^{+1.4}_{-1.4}$
A_{217}^{PS}	121.6	106^{+30}_{-30}	σ_8	0.833	$0.858^{+0.055}_{-0.061}$	k_D	0.14055	$0.1407^{+0.0014}_{-0.0015}$
A_{143}^{CIB}	0.0	—	z_{re}	11.2	$14.2^{+6.2}_{-7.0}$	$100\theta_D$	0.16120	$0.16090^{+0.00086}_{-0.00084}$
A_{217}^{CIB}	25	28^{+20}_{-10}	H_0	66.81	$67.3^{+3.1}_{-3.0}$	z_{eq}	3420	3403^{+150}_{-140}
A_{143}^{tSZ}	5.44	—	$10^9 A_s$	2.216	$2.41^{+0.38}_{-0.38}$	$100\theta_{\text{eq}}$	0.8095	$0.813^{+0.029}_{-0.028}$
$r_{143 \times 217}^{\text{PS}}$	0.911	> 0.735	$\Omega_m h^2$	0.1438	$0.1430^{+0.0062}_{-0.0060}$	$r_{\text{drag}}/D_V(0.57)$	0.07103	$0.0713^{+0.0023}_{-0.0022}$

Best-fit $\chi^2_{\text{eff}} = 7790.13$; R-1 = 0.01177

χ^2_{eff} : CMB - lowl: -8.77 CamSpec: 7798.29

5.14 base_alpha1_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02231	$0.02233^{+0.00073}_{-0.00067}$	$r_{143 \times 217}^{\text{CIB}}$	0.759	< 0.824	$\Omega_m h^3$	0.09613	$0.0961^{+0.0012}_{-0.0011}$
$\Omega_c h^2$	0.1184	$0.1189^{+0.0067}_{-0.0067}$	γ^{CIB}	0.588	$0.53^{+0.23}_{-0.26}$	Y_P	0.247812	$0.24782^{+0.00031}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04132	$1.0410^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00060^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8360	$1.836^{+0.033}_{-0.035}$
τ	0.094	$0.099^{+0.070}_{-0.066}$	c_{217}	0.99646	$0.9964^{+0.0028}_{-0.0026}$	Age/Gyr	13.785	$13.79^{+0.11}_{-0.13}$
α_{-1}	-0.00041	$-0.0028^{+0.0041}_{-0.0057}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	z_*	1089.97	$1090.0^{+1.3}_{-1.4}$
n_s	0.9645	$0.958^{+0.023}_{-0.021}$	A^{kSZ}	0.8	—	r_*	144.87	$144.7^{+1.5}_{-1.4}$
$\ln(10^{10} A_s)$	3.098	$3.11^{+0.13}_{-0.12}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04145	$1.0412^{+0.0014}_{-0.0014}$
A_{100}^{PS}	148	172^{+100}_{-100}	Ω_Λ	0.6941	$0.690^{+0.040}_{-0.043}$	z_{drag}	1059.74	$1059.8^{+1.4}_{-1.3}$
A_{143}^{PS}	62.1	50^{+30}_{-30}	Ω_m	0.3059	$0.310^{+0.043}_{-0.040}$	r_{drag}	147.57	$147.4^{+1.4}_{-1.4}$
A_{217}^{PS}	117.1	102^{+30}_{-30}	σ_8	0.8268	$0.827^{+0.038}_{-0.036}$	k_D	0.14022	$0.1404^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$11.6^{+5.6}_{-5.9}$	$100\theta_D$	0.16107	$0.16099^{+0.00080}_{-0.00079}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	67.99	$67.8^{+3.2}_{-3.0}$	z_{eq}	3363	3375^{+150}_{-150}
A_{143}^{tSZ}	6.33	—	$10^9 A_s$	2.215	$2.24^{+0.28}_{-0.28}$	$100\theta_{\text{eq}}$	0.8204	$0.818^{+0.030}_{-0.028}$
$r_{143 \times 217}^{\text{PS}}$	0.942	> 0.720	$\Omega_m h^2$	0.1414	$0.1419^{+0.0063}_{-0.0062}$	$r_{\text{drag}}/D_V(0.57)$	0.07192	$0.0717^{+0.0024}_{-0.0022}$

Best-fit $\chi_{\text{eff}}^2 = 7800.68$; R-1 = 0.02598

χ_{eff}^2 : CMB - lensing: 9.72 lowl: -9.05 CamSpec: 7799.70

5.15 base_alpha1_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02246^{+0.00061}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.524	< 0.788	$\Omega_m h^3$	0.09609	$0.0963^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.11907	$0.1185^{+0.0037}_{-0.0036}$	γ^{CIB}	0.536	$0.53^{+0.24}_{-0.26}$	Y_P	0.247779	$0.24788^{+0.00026}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04130	$1.0411^{+0.0012}_{-0.0012}$	c_{100}	1.00060	$1.00060^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8379	$1.835^{+0.021}_{-0.021}$
τ	0.093	$0.144^{+0.073}_{-0.077}$	c_{217}	0.99642	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.796	$13.776^{+0.082}_{-0.083}$
α_{-1}	-0.0004	$-0.0044^{+0.0058}_{-0.0078}$	$\xi^{\text{tSZ-CIB}}$	0.14	—	z_*	1090.12	$1089.78^{+0.94}_{-0.92}$
n_s	0.9628	$0.960^{+0.015}_{-0.014}$	A^{kSZ}	1.72	—	r_*	144.77	$144.74^{+0.92}_{-0.89}$
$\ln(10^{10} A_s)$	3.098	$3.20^{+0.14}_{-0.15}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04144	$1.0412^{+0.0012}_{-0.0012}$
A_{100}^{PS}	147	165^{+100}_{-100}	Ω_Λ	0.6903	$0.694^{+0.021}_{-0.023}$	z_{drag}	1059.63	$1060.1^{+1.4}_{-1.3}$
A_{143}^{PS}	62.4	50^{+30}_{-30}	Ω_m	0.3097	$0.306^{+0.023}_{-0.021}$	r_{drag}	147.49	$147.38^{+0.99}_{-0.95}$
A_{217}^{PS}	120.4	106^{+30}_{-30}	σ_8	0.828	$0.863^{+0.056}_{-0.058}$	k_D	0.14024	$0.1405^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$15.1^{+5.2}_{-5.7}$	$100\theta_D$	0.16115	$0.16082^{+0.00081}_{-0.00080}$
A_{217}^{CIB}	24	28^{+20}_{-10}	H_0	67.70	$68.0^{+1.7}_{-1.7}$	z_{eq}	3376	3368^{+85}_{-83}
A_{143}^{tSZ}	6.24	—	$10^9 A_s$	2.216	$2.45^{+0.34}_{-0.36}$	$100\theta_{\text{eq}}$	0.8179	$0.820^{+0.016}_{-0.016}$
$r_{143 \times 217}^{\text{PS}}$	0.901	> 0.734	$\Omega_m h^2$	0.14194	$0.1416^{+0.0035}_{-0.0035}$	$r_{\text{drag}}/D_V(0.57)$	0.07171	$0.0719^{+0.0013}_{-0.0013}$

Best-fit $\chi_{\text{eff}}^2 = 7792.11$; R-1 = 0.01296

χ_{eff}^2 : BAO - DR7: 1.34 6DF: 0.01 DR9: 0.20 CMB - lowl: -8.88 CamSpec: 7798.77

5.16 base_alpha1_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02232	$0.02269^{+0.00071}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.609	< 0.757	$\Omega_m h^3$	0.09612	$0.0965^{+0.0013}_{-0.0013}$
$\Omega_c h^2$	0.1178	$0.1161^{+0.0056}_{-0.0054}$	γ^{CIB}	0.536	$0.53^{+0.24}_{-0.25}$	Y_P	0.247817	$0.24797^{+0.00030}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04150	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00058	$1.00060^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8325	$1.824^{+0.029}_{-0.029}$
τ	0.095	$0.164^{+0.076}_{-0.079}$	c_{217}	0.99643	$0.9963^{+0.0027}_{-0.0026}$	Age/Gyr	13.776	$13.73^{+0.11}_{-0.11}$
α_{-1}	-0.0003	$-0.0047^{+0.0061}_{-0.0082}$	$\xi^{\text{SZ-CIB}}$	0.34	—	z_*	1089.90	$1089.3^{+1.2}_{-1.1}$
n_s	0.9664	$0.968^{+0.019}_{-0.019}$	A^{kSZ}	1.10	—	r_*	145.03	$145.2^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.098	$3.23^{+0.15}_{-0.15}$	β_1^1	0.65	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04163	$1.0415^{+0.0013}_{-0.0013}$
A_{100}^{PS}	151	158^{+100}_{-100}	Ω_Λ	0.6981	$0.708^{+0.033}_{-0.033}$	z_{drag}	1059.74	$1060.5^{+1.4}_{-1.4}$
A_{143}^{PS}	64.1	48^{+30}_{-20}	Ω_m	0.3019	$0.292^{+0.033}_{-0.033}$	r_{drag}	147.72	$147.8^{+1.3}_{-1.2}$
A_{217}^{PS}	122.0	105^{+30}_{-30}	σ_8	0.825	$0.870^{+0.054}_{-0.058}$	k_D	0.14006	$0.1403^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$16.4^{+5.0}_{-5.5}$	$100\theta_D$	0.16110	$0.16065^{+0.00085}_{-0.00081}$
A_{217}^{CIB}	24	27^{+10}_{-10}	H_0	68.28	$69.2^{+2.6}_{-2.6}$	z_{eq}	3348	3317^{+120}_{-120}
A_{143}^{tSZ}	5.69	—	$10^9 A_s$	2.216	$2.54^{+0.36}_{-0.38}$	$100\theta_{\text{eq}}$	0.8234	$0.830^{+0.024}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.930	> 0.738	$\Omega_m h^2$	0.1408	$0.1394^{+0.0052}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07216	$0.0728^{+0.0020}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 7796.85$; R-1 = 0.02136

χ_{eff}^2 : CMB - lowl: -8.96 CamSpec: 7799.87 Hubble - HST: 5.27

5.17 base_alpha1_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02225	$0.02256^{+0.00071}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.077	< 0.773	$\Omega_m h^3$	0.09611	$0.0963^{+0.0013}_{-0.0013}$
$\Omega_c h^2$	0.1190	$0.1173^{+0.0059}_{-0.0058}$	γ^{CIB}	0.539	$0.53^{+0.24}_{-0.25}$	Y_P	0.247788	$0.24792^{+0.00030}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04130	$1.0412^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8380	$1.829^{+0.030}_{-0.030}$
τ	0.095	$0.153^{+0.080}_{-0.083}$	c_{217}	0.99637	$0.9963^{+0.0027}_{-0.0026}$	Age/Gyr	13.794	$13.76^{+0.11}_{-0.12}$
α_{-1}	-0.0004	$-0.0045^{+0.0060}_{-0.0080}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.08	$1089.6^{+1.2}_{-1.2}$
n_s	0.9634	$0.964^{+0.020}_{-0.020}$	A^{kSZ}	0.0	—	r_*	144.78	$145.0^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.21^{+0.15}_{-0.16}$	β_1^1	0.70	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04143	$1.0413^{+0.0013}_{-0.0014}$
A_{100}^{PS}	147	162^{+100}_{-100}	Ω_Λ	0.6910	$0.701^{+0.036}_{-0.036}$	z_{drag}	1059.67	$1060.3^{+1.4}_{-1.4}$
A_{143}^{PS}	61.0	49^{+30}_{-20}	Ω_m	0.3090	$0.299^{+0.036}_{-0.036}$	r_{drag}	147.49	$147.6^{+1.3}_{-1.3}$
A_{217}^{PS}	122.9	105^{+30}_{-30}	σ_8	0.829	$0.866^{+0.052}_{-0.060}$	k_D	0.14025	$0.1404^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	1.09	—	z_{re}	11.4	$15.7^{+5.5}_{-6.0}$	$100\theta_D$	0.16113	$0.16075^{+0.00085}_{-0.00084}$
A_{217}^{CIB}	24	28^{+20}_{-10}	H_0	67.75	$68.6^{+2.8}_{-2.7}$	z_{eq}	3374	3343^{+130}_{-130}
A_{143}^{tSZ}	6.87	—	$10^9 A_s$	2.220	$2.49^{+0.37}_{-0.39}$	$100\theta_{\text{eq}}$	0.8183	$0.825^{+0.026}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.893	> 0.736	$\Omega_m h^2$	0.1419	$0.1405^{+0.0055}_{-0.0054}$	$r_{\text{drag}}/D_V(0.57)$	0.07175	$0.0723^{+0.0021}_{-0.0020}$

Best-fit $\chi_{\text{eff}}^2 = 8219.76$; R-1 = 0.01294

χ_{eff}^2 : CMB - lowl: -8.90 CamSpec: 7798.70 SN - SNLS: 429.31

5.18 base_alpha1_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02242^{+0.00073}_{-0.00068}$	$r_{143 \times 217}^{\text{CIB}}$	0.471	< 0.786	$\Omega_m h^3$	0.09606	$0.0963^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1200	$0.1190^{+0.0061}_{-0.0060}$	γ^{CIB}	0.554	$0.53^{+0.24}_{-0.26}$	Y_P	0.247760	$0.24786^{+0.00031}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04108	$1.0410^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8425	$1.837^{+0.031}_{-0.031}$
τ	0.093	$0.140^{+0.077}_{-0.087}$	c_{217}	0.99640	$0.9964^{+0.0027}_{-0.0026}$	Age/Gyr	13.811	$13.78^{+0.11}_{-0.12}$
α_{-1}	-0.0006	$-0.0045^{+0.0058}_{-0.0077}$	$\xi^{\text{tSZ-CIB}}$	0.15	—	z_*	1090.26	$1089.9^{+1.3}_{-1.3}$
n_s	0.9603	$0.959^{+0.021}_{-0.020}$	A^{kSZ}	0.96	—	r_*	144.57	$144.6^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.099	$3.19^{+0.15}_{-0.16}$	β_1^1	0.73	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04123	$1.0411^{+0.0014}_{-0.0014}$
A_{100}^{PS}	151	166^{+100}_{-100}	Ω_Λ	0.6845	$0.690^{+0.036}_{-0.039}$	z_{drag}	1059.59	$1060.1^{+1.4}_{-1.4}$
A_{143}^{PS}	64.0	51^{+30}_{-30}	Ω_m	0.3155	$0.310^{+0.039}_{-0.036}$	r_{drag}	147.30	$147.3^{+1.3}_{-1.3}$
A_{217}^{PS}	121.0	106^{+30}_{-30}	σ_8	0.830	$0.861^{+0.054}_{-0.060}$	k_D	0.14040	$0.1406^{+0.0014}_{-0.0015}$
A_{143}^{CIB}	0.0	—	z_{re}	11.3	$14.8^{+5.8}_{-6.5}$	$100\theta_D$	0.16115	$0.16084^{+0.00085}_{-0.00083}$
A_{217}^{CIB}	25	28^{+20}_{-10}	H_0	67.27	$67.8^{+2.9}_{-2.8}$	z_{eq}	3397	3380^{+140}_{-130}
A_{143}^{tSZ}	6.33	—	$10^9 A_s$	2.218	$2.44^{+0.37}_{-0.38}$	$100\theta_{\text{eq}}$	0.8139	$0.818^{+0.027}_{-0.026}$
$r_{143 \times 217}^{\text{PS}}$	0.913	> 0.735	$\Omega_m h^2$	0.1428	$0.1421^{+0.0057}_{-0.0056}$	$r_{\text{drag}}/D_V(0.57)$	0.07138	$0.0717^{+0.0022}_{-0.0021}$

Best-fit $\chi^2_{\text{eff}} = 7920.73$; R-1 = 0.01131

χ^2_{eff} : CMB - lowl: -8.93 CamSpec: 7798.55 SN - Union2.1: 130.58

5.19 base_alpha1_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02249	$0.0227^{+0.0012}_{-0.0012}$	σ_8	0.816	$0.804^{+0.054}_{-0.054}$	r_*	145.51	$146.1^{+3.1}_{-3.3}$
$\Omega_c h^2$	0.1155	$0.113^{+0.014}_{-0.014}$	z_{re}	10.78	$10.6^{+2.4}_{-2.2}$	$100\theta_*$	1.0394	$1.0410^{+0.0080}_{-0.0083}$
$100\theta_{\text{MC}}$	1.0393	$1.0409^{+0.0080}_{-0.0084}$	H_0	68.5	$70.4^{+7.8}_{-8.1}$	z_{drag}	1059.97	$1060.3^{+2.3}_{-2.3}$
τ	0.0888	$0.089^{+0.029}_{-0.027}$	$10^9 A_s$	2.218	$2.20^{+0.16}_{-0.15}$	r_{drag}	148.16	$148.7^{+3.1}_{-3.3}$
α_{-1}	-0.0001	$0.0012^{+0.012}_{-0.0092}$	$\Omega_m h^2$	0.1386	$0.136^{+0.014}_{-0.013}$	k_D	0.13973	$0.1393^{+0.0033}_{-0.0031}$
n_s	0.9689	$0.978^{+0.047}_{-0.050}$	$\Omega_m h^3$	0.09499	$0.0955^{+0.0044}_{-0.0045}$	$100\theta_D$	0.16060	$0.1607^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.099	$3.090^{+0.072}_{-0.066}$	Y_P	0.24789	$0.24798^{+0.00050}_{-0.00052}$	z_{eq}	3297	3237^{+330}_{-310}
A_{tSZ}	0.01	—	$10^9 A_s e^{-2\tau}$	1.857	$1.839^{+0.084}_{-0.076}$	$100\theta_{\text{eq}}$	0.832	$0.847^{+0.066}_{-0.067}$
Ω_Λ	0.705	$0.721^{+0.085}_{-0.097}$	Age/Gyr	13.813	$13.73^{+0.40}_{-0.38}$	$r_{\text{drag}}/D_V(0.57)$	0.0724	$0.0739^{+0.0062}_{-0.0061}$
Ω_m	0.295	$0.279^{+0.097}_{-0.085}$	z_*	1089.47	$1089.0^{+2.5}_{-2.4}$			

Best-fit $\chi^2_{\text{eff}} = 7557.85$; R-1 = 0.00708

χ^2_{eff} : CMB - WMAP: 7557.85

5.20 base_alpha1_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02243	$0.02249^{+0.00085}_{-0.00086}$	σ_8	0.8169	$0.814^{+0.038}_{-0.036}$	r_*	145.35	$145.4^{+1.6}_{-1.5}$
$\Omega_c h^2$	0.11628	$0.1158^{+0.0050}_{-0.0048}$	z_{re}	10.71	$10.8^{+2.3}_{-2.3}$	$100\theta_*$	1.0390	$1.0387^{+0.0051}_{-0.0050}$
$100\theta_{\text{MC}}$	1.0389	$1.0386^{+0.0051}_{-0.0051}$	H_0	68.04	$68.2^{+2.1}_{-2.0}$	z_{drag}	1059.89	$1060.0^{+2.1}_{-2.1}$
τ	0.0876	$0.090^{+0.028}_{-0.028}$	$10^9 A_s$	2.218	$2.22^{+0.14}_{-0.14}$	r_{drag}	148.01	$148.1^{+1.8}_{-1.8}$
α_{-1}	-0.00023	$-0.0012^{+0.0042}_{-0.0052}$	$\Omega_m h^2$	0.1394	$0.1389^{+0.0052}_{-0.0051}$	k_D	0.13984	$0.1398^{+0.0023}_{-0.0024}$
n_s	0.9658	$0.964^{+0.027}_{-0.024}$	$\Omega_m h^3$	0.09482	$0.0947^{+0.0039}_{-0.0038}$	$100\theta_D$	0.16059	$0.1605^{+0.0011}_{-0.0010}$
$\ln(10^{10} A_s)$	3.099	$3.100^{+0.063}_{-0.058}$	Y_P	0.247864	$0.24789^{+0.00035}_{-0.00037}$	z_{eq}	3314	3305^{+120}_{-120}
A_{tSZ}	0.01	—	$10^9 A_s e^{-2\tau}$	1.8613	$1.855^{+0.044}_{-0.046}$	$100\theta_{\text{eq}}$	0.8279	$0.830^{+0.021}_{-0.021}$
Ω_Λ	0.6990	$0.701^{+0.023}_{-0.025}$	Age/Gyr	13.836	$13.84^{+0.20}_{-0.20}$	$r_{\text{drag}}/D_V(0.57)$	0.07201	$0.0721^{+0.0015}_{-0.0015}$
Ω_m	0.3010	$0.299^{+0.025}_{-0.023}$	z_*	1089.62	$1089.5^{+1.1}_{-1.0}$			

Best-fit $\chi^2_{\text{eff}} = 7559.15$; R-1 = 0.00931

χ^2_{eff} : BAO - 6DF: 0.03 DR7: 0.69 DR9: 0.50 CMB - WMAP: 7557.94

5.21 base_alpha1_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02279	$0.02302^{+0.00093}_{-0.00090}$	σ_8	0.8027	$0.792^{+0.043}_{-0.041}$	r_*	146.46	$147.1^{+2.1}_{-2.1}$
$\Omega_c h^2$	0.1111	$0.1082^{+0.0078}_{-0.0072}$	z_{re}	11.28	$10.4^{+2.3}_{-2.1}$	$100\theta_*$	1.0405	$1.0437^{+0.0051}_{-0.0058}$
$100\theta_{\text{MC}}$	1.0404	$1.0436^{+0.0052}_{-0.0058}$	H_0	70.80	$73.3^{+3.9}_{-4.3}$	z_{drag}	1060.31	$1060.6^{+2.1}_{-2.1}$
τ	0.0971	$0.089^{+0.028}_{-0.027}$	$10^9 A_s$	2.221	$2.17^{+0.14}_{-0.13}$	r_{drag}	149.03	$149.6^{+2.2}_{-2.3}$
α_{-1}	0.0000	$0.0037^{+0.0089}_{-0.0065}$	$\Omega_m h^2$	0.1345	$0.1319^{+0.0077}_{-0.0072}$	k_D	0.13903	$0.1386^{+0.0027}_{-0.0026}$
n_s	0.9782	$0.995^{+0.028}_{-0.031}$	$\Omega_m h^3$	0.09523	$0.0965^{+0.0038}_{-0.0037}$	$100\theta_D$	0.16053	$0.1608^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.101	$3.077^{+0.064}_{-0.059}$	Y_P	0.248016	$0.24811^{+0.00038}_{-0.00038}$	z_{eq}	3199	3135^{+180}_{-170}
A_{tSZ}	1.19	—	$10^9 A_s e^{-2\tau}$	1.829	$1.816^{+0.056}_{-0.054}$	$100\theta_{\text{eq}}$	0.8525	$0.869^{+0.038}_{-0.038}$
Ω_Λ	0.7316	$0.753^{+0.039}_{-0.042}$	Age/Gyr	13.728	$13.59^{+0.24}_{-0.22}$	$r_{\text{drag}}/D_V(0.57)$	0.07416	$0.0761^{+0.0032}_{-0.0034}$
Ω_m	0.2684	$0.247^{+0.042}_{-0.039}$	z_*	1088.72	$1088.2^{+1.3}_{-1.3}$			

Best-fit $\chi^2_{\text{eff}} = 7560.21$; R-1 = 0.00595

χ^2_{eff} : CMB - WMAP: 7558.58 Hubble - HST: 1.63

5.22 base_alpha1_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02266	$0.0230^{+0.0010}_{-0.0010}$	σ_8	0.8056	$0.790^{+0.045}_{-0.045}$	r_*	146.25	$147.1^{+2.3}_{-2.4}$
$\Omega_c h^2$	0.1122	$0.1081^{+0.0095}_{-0.0086}$	z_{re}	11.24	$10.5^{+2.3}_{-2.2}$	$100\theta_*$	1.0400	$1.0434^{+0.0062}_{-0.0072}$
$100\theta_{\text{MC}}$	1.0399	$1.0434^{+0.0062}_{-0.0073}$	H_0	70.1	$73.2^{+5.4}_{-5.9}$	z_{drag}	1060.12	$1060.6^{+2.2}_{-2.2}$
τ	0.0958	$0.089^{+0.029}_{-0.027}$	$10^9 A_s$	2.220	$2.17^{+0.14}_{-0.14}$	r_{drag}	148.86	$149.6^{+2.4}_{-2.4}$
α_{-1}	0.0000	$0.0038^{+0.011}_{-0.0082}$	$\Omega_m h^2$	0.1355	$0.1318^{+0.0092}_{-0.0084}$	k_D	0.13912	$0.1385^{+0.0027}_{-0.0027}$
n_s	0.9736	$0.994^{+0.035}_{-0.040}$	$\Omega_m h^3$	0.09500	$0.0964^{+0.0040}_{-0.0041}$	$100\theta_D$	0.16058	$0.1608^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.100	$3.077^{+0.066}_{-0.060}$	Y_P	0.247962	$0.24810^{+0.00043}_{-0.00043}$	z_{eq}	3223	3134^{+220}_{-200}
A_{tSZ}	1.31	—	$10^9 A_s e^{-2\tau}$	1.833	$1.816^{+0.061}_{-0.057}$	$100\theta_{\text{eq}}$	0.8469	$0.870^{+0.047}_{-0.048}$
Ω_Λ	0.724	$0.752^{+0.051}_{-0.057}$	Age/Gyr	13.761	$13.60^{+0.32}_{-0.28}$	$r_{\text{drag}}/D_V(0.57)$	0.07363	$0.0761^{+0.0043}_{-0.0046}$
Ω_m	0.276	$0.248^{+0.057}_{-0.051}$	z_*	1088.98	$1088.2^{+1.7}_{-1.6}$			

Best-fit $\chi^2_{\text{eff}} = 7985.25$; R-1 = 0.00675

χ^2_{eff} : CMB - WMAP: 7558.41 SN - SNLS: 426.84

5.23 base_alpha1_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02263	$0.0227^{+0.0011}_{-0.0011}$	σ_8	0.8159	$0.803^{+0.046}_{-0.047}$	r_*	145.62	$146.2^{+2.6}_{-2.6}$
$\Omega_c h^2$	0.1146	$0.112^{+0.011}_{-0.010}$	z_{re}	10.93	$10.6^{+2.4}_{-2.2}$	$100\theta_*$	1.0403	$1.0413^{+0.0070}_{-0.0074}$
$100\theta_{\text{MC}}$	1.0401	$1.0412^{+0.0070}_{-0.0075}$	H_0	69.2	$70.7^{+6.1}_{-6.1}$	z_{drag}	1060.24	$1060.3^{+2.2}_{-2.3}$
τ	0.0912	$0.089^{+0.028}_{-0.027}$	$10^9 A_s$	2.226	$2.19^{+0.15}_{-0.14}$	r_{drag}	148.23	$148.8^{+2.6}_{-2.6}$
α_{-1}	0.0000	$0.0013^{+0.010}_{-0.0075}$	$\Omega_m h^2$	0.1379	$0.136^{+0.010}_{-0.0097}$	k_D	0.13976	$0.1392^{+0.0028}_{-0.0028}$
n_s	0.9734	$0.980^{+0.040}_{-0.042}$	$\Omega_m h^3$	0.09550	$0.0957^{+0.0042}_{-0.0043}$	$100\theta_D$	0.16057	$0.1607^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.103	$3.088^{+0.068}_{-0.062}$	Y_P	0.247950	$0.24800^{+0.00045}_{-0.00045}$	z_{eq}	3280	3223^{+250}_{-230}
A_{tSZ}	0.19	—	$10^9 A_s e^{-2\tau}$	1.855	$1.836^{+0.066}_{-0.063}$	$100\theta_{\text{eq}}$	0.836	$0.849^{+0.052}_{-0.051}$
Ω_Λ	0.712	$0.726^{+0.065}_{-0.071}$	Age/Gyr	13.769	$13.71^{+0.34}_{-0.32}$	$r_{\text{drag}}/D_V(0.57)$	0.07288	$0.0741^{+0.0048}_{-0.0047}$
Ω_m	0.288	$0.274^{+0.071}_{-0.065}$	z_*	1089.23	$1088.9^{+1.9}_{-1.8}$			

Best-fit $\chi^2_{\text{eff}} = 7687.85$; R-1 = 0.00466

χ^2_{eff} : CMB - WMAP: 7557.90 SN - Union2.1: 129.95

6 mnu

6.1 base_mnu_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02206	$0.02190^{+0.00063}_{-0.00064}$	γ^{CIB}	0.613	$0.54^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8442	$1.838^{+0.026}_{-0.025}$
$\Omega_c h^2$	0.1208	$0.1209^{+0.0056}_{-0.0055}$	\mathbf{c}_{100}	1.00058	$1.00059^{+0.00078}_{-0.00079}$	$\Omega_\nu h^2$	0.0002	< 0.0100
$100\theta_{\text{MC}}$	1.04106	$1.0410^{+0.0014}_{-0.0014}$	\mathbf{c}_{217}	0.99645	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.805	$13.97^{+0.38}_{-0.28}$
τ	0.0914	$0.089^{+0.027}_{-0.026}$	$\xi^{\text{tSZ-CIB}}$	0.43	—	z_*	1090.48	$1090.8^{+1.4}_{-1.3}$
Σm_ν	0.022	< 0.933	\mathbf{A}^{kSZ}	1.31	—	r_*	144.47	$144.5^{+1.3}_{-1.3}$
n_s	0.9613	$0.957^{+0.016}_{-0.017}$	β_1^1	0.73	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04120	$1.0413^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.0973	$3.090^{+0.051}_{-0.048}$	Ω_Λ	0.684	$0.645^{+0.081}_{-0.11}$	z_{drag}	1059.32	$1059.0^{+1.2}_{-1.2}$
A_{100}^{PS}	149	175^{+100}_{-100}	Ω_m	0.316	$0.355^{+0.11}_{-0.081}$	r_{drag}	147.24	$147.3^{+1.2}_{-1.3}$
A_{143}^{PS}	62.7	55^{+30}_{-30}	σ_8	0.845	$0.775^{+0.093}_{-0.13}$	k_D	0.14036	$0.1402^{+0.0013}_{-0.0013}$
A_{217}^{PS}	117.3	106^{+30}_{-40}	z_{re}	11.26	$11.2^{+2.3}_{-2.2}$	$100\theta_D$	0.16131	$0.16147^{+0.00068}_{-0.00067}$
A_{143}^{CIB}	0.0	—	H_0	67.3	$64.5^{+5.4}_{-6.8}$	z_{eq}	3413	3411^{+130}_{-120}
A_{217}^{CIB}	26	30^{+20}_{-10}	$10^9 A_s$	2.214	$2.20^{+0.12}_{-0.10}$	$100\theta_{\text{eq}}$	0.8107	$0.811^{+0.024}_{-0.023}$
A_{143}^{tSZ}	5.84	—	$\Omega_m h^2$	0.1430	$0.146^{+0.010}_{-0.0086}$	$r_{\text{drag}}/D_V(0.57)$	0.07137	$0.0697^{+0.0036}_{-0.0044}$
$r_{143 \times 217}^{\text{PS}}$	0.987	> 0.730	$\Omega_m h^3$	0.09623	$0.0942^{+0.0032}_{-0.0042}$			
$r_{143 \times 217}^{\text{CIB}}$	0.534	< 0.823	Y_P	0.247706	$0.24763^{+0.00027}_{-0.00028}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.94$; R-1 = 0.00931

χ_{eff}^2 : CMB - lowLike: 2014.38 lowl: -6.46 CamSpec: 7797.84

6.2 base_mnu_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02213^{+0.00052}_{-0.00049}$	γ^{CIB}	0.527	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8374	$1.830^{+0.019}_{-0.020}$
$\Omega_c h^2$	0.11931	$0.1185^{+0.0036}_{-0.0037}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00081}$	$\Omega_\nu h^2$	0.00002	< 0.00265
$100\theta_{\text{MC}}$	1.04143	$1.0415^{+0.0011}_{-0.0011}$	c_{217}	0.99636	$0.9964^{+0.0028}_{-0.0027}$	Age/Gyr	13.773	$13.81^{+0.10}_{-0.10}$
τ	0.0937	$0.092^{+0.026}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.24	$1090.21^{+0.80}_{-0.79}$
Σm_ν	0.002	< 0.247	A^{kSZ}	0.4	—	r_*	144.78	$144.99^{+0.88}_{-0.89}$
n_s	0.9650	$0.963^{+0.011}_{-0.012}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04155	$1.0417^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.098	$3.091^{+0.051}_{-0.049}$	Ω_Λ	0.6949	$0.690^{+0.021}_{-0.024}$	z_{drag}	1059.44	$1059.3^{+1.1}_{-1.1}$
A_{100}^{PS}	148	170^{+100}_{-100}	Ω_m	0.3051	$0.310^{+0.024}_{-0.021}$	r_{drag}	147.52	$147.74^{+0.93}_{-0.94}$
A_{143}^{PS}	64.2	53^{+30}_{-30}	σ_8	0.8452	$0.819^{+0.041}_{-0.047}$	k_D	0.14014	$0.1399^{+0.0012}_{-0.0011}$
A_{217}^{PS}	123.6	106^{+30}_{-30}	z_{re}	11.40	$11.2^{+2.2}_{-2.2}$	$100\theta_D$	0.16128	$0.16135^{+0.00064}_{-0.00065}$
A_{143}^{CIB}	0.0	—	H_0	68.10	$67.6^{+1.7}_{-1.8}$	z_{eq}	3380	3361^{+84}_{-85}
A_{217}^{CIB}	24	29^{+10}_{-10}	$10^9 A_s$	2.216	$2.20^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8170	$0.821^{+0.017}_{-0.016}$
A_{143}^{tSZ}	6.31	—	$\Omega_m h^2$	0.14148	$0.1417^{+0.0033}_{-0.0032}$	$r_{\text{drag}}/D_V(0.57)$	0.07198	$0.0718^{+0.0012}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.904	> 0.728	$\Omega_m h^3$	0.09634	$0.0958^{+0.0015}_{-0.0016}$			
$r_{143 \times 217}^{\text{CIB}}$	0.612	< 0.818	Y_P	0.247745	$0.24774^{+0.00022}_{-0.00021}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.45$; R-1 = 0.01661

χ_{eff}^2 : BAO - DR9: 0.46 DR7: 0.81 6DF: 0.03 CMB - lowLike: 2014.39 lowl: -7.12 CamSpec: 7797.13

6.3 base_mnu_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02232	$0.02227^{+0.00058}_{-0.00054}$	γ^{CIB}	0.531	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8282	$1.824^{+0.024}_{-0.023}$
$\Omega_c h^2$	0.11730	$0.1171^{+0.0048}_{-0.0048}$	c_{100}	1.00060	$1.00059^{+0.00076}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00211
$100\theta_{\text{MC}}$	1.04173	$1.0418^{+0.0012}_{-0.0013}$	c_{217}	0.99630	$0.9963^{+0.0027}_{-0.0028}$	Age/Gyr	13.736	$13.77^{+0.12}_{-0.12}$
τ	0.0965	$0.094^{+0.028}_{-0.026}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.83	$1089.89^{+0.97}_{-0.96}$
Σm_ν	0.000	< 0.196	A^{kSZ}	0.0	—	r_*	145.16	$145.3^{+1.1}_{-1.1}$
n_s	0.9693	$0.967^{+0.014}_{-0.014}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04184	$1.0419^{+0.0011}_{-0.0012}$
$\ln(10^{10} A_s)$	3.099	$3.093^{+0.051}_{-0.050}$	Ω_Λ	0.7074	$0.701^{+0.033}_{-0.032}$	z_{drag}	1059.70	$1059.6^{+1.2}_{-1.1}$
A_{100}^{PS}	135	169^{+100}_{-100}	Ω_m	0.2926	$0.299^{+0.032}_{-0.033}$	r_{drag}	147.86	$148.0^{+1.1}_{-1.1}$
A_{143}^{PS}	57.4	52^{+20}_{-30}	σ_8	0.8392	$0.821^{+0.036}_{-0.040}$	k_D	0.13992	$0.1398^{+0.0012}_{-0.0013}$
A_{217}^{PS}	121.2	105^{+30}_{-30}	z_{re}	11.52	$11.3^{+2.2}_{-2.2}$	$100\theta_D$	0.16115	$0.16124^{+0.00065}_{-0.00068}$
A_{143}^{CIB}	1.15	—	H_0	69.07	$68.6^{+2.6}_{-2.6}$	z_{eq}	3336	3331^{+110}_{-110}
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.217	$2.20^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8257	$0.827^{+0.022}_{-0.021}$
A_{143}^{tSZ}	7.93	—	$\Omega_m h^2$	0.13963	$0.1401^{+0.0047}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.07271	$0.0724^{+0.0019}_{-0.0018}$
$r_{143 \times 217}^{\text{PS}}$	0.895	> 0.731	$\Omega_m h^3$	0.09645	$0.0961^{+0.0013}_{-0.0015}$			
$r_{143 \times 217}^{\text{CIB}}$	0.226	< 0.816	Y_P	0.247820	$0.24780^{+0.00025}_{-0.00023}$			

Best-fit $\chi_{\text{eff}}^2 = 9809.89$; R-1 = 0.02562

χ_{eff}^2 : CMB - lowLike: 2014.41 lowl: -7.75 CamSpec: 7798.62 Hubble - HST: 3.90

6.4 base_mnu_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02216^{+0.00057}_{-0.00054}$	γ^{CIB}	0.542	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.828^{+0.024}_{-0.024}$
$\Omega_c h^2$	0.11834	$0.1181^{+0.0048}_{-0.0049}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	$\Omega_\nu h^2$	0.00000	< 0.00303
$100\theta_{\text{MC}}$	1.04155	$1.0415^{+0.0013}_{-0.0013}$	c_{217}	0.99649	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.758	$13.81^{+0.15}_{-0.14}$
τ	0.0946	$0.093^{+0.027}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.26	—	z_*	1090.07	$1090.1^{+1.0}_{-1.0}$
Σm_ν	0.000	< 0.281	A^{kSZ}	1.13	—	r_*	144.98	$145.1^{+1.1}_{-1.1}$
n_s	0.9666	$0.964^{+0.014}_{-0.014}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04166	$1.0417^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.098	$3.091^{+0.051}_{-0.049}$	Ω_Λ	0.7008	$0.692^{+0.037}_{-0.039}$	z_{drag}	1059.55	$1059.4^{+1.2}_{-1.1}$
A_{100}^{PS}	160	170^{+100}_{-100}	Ω_m	0.2992	$0.308^{+0.039}_{-0.037}$	r_{drag}	147.70	$147.8^{+1.1}_{-1.1}$
A_{143}^{PS}	66.8	53^{+30}_{-30}	σ_8	0.8421	$0.817^{+0.043}_{-0.051}$	k_D	0.14000	$0.1398^{+0.0012}_{-0.0012}$
A_{217}^{PS}	119.3	106^{+30}_{-30}	z_{re}	11.43	$11.3^{+2.2}_{-2.2}$	$100\theta_D$	0.16123	$0.16132^{+0.00065}_{-0.00068}$
A_{143}^{CIB}	0.0	—	H_0	68.54	$67.8^{+2.9}_{-3.1}$	z_{eq}	3359	3352^{+110}_{-110}
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.216	$2.20^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8212	$0.823^{+0.022}_{-0.021}$
A_{143}^{tSZ}	4.85	—	$\Omega_m h^2$	0.1406	$0.1413^{+0.0052}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07232	$0.0719^{+0.0021}_{-0.0021}$
$r_{143 \times 217}^{\text{PS}}$	0.902	> 0.730	$\Omega_m h^3$	0.09634	$0.0958^{+0.0016}_{-0.0017}$			
$r_{143 \times 217}^{\text{CIB}}$	0.481	< 0.818	Y_P	0.247774	$0.24775^{+0.00024}_{-0.00023}$			

Best-fit $\chi_{\text{eff}}^2 = 10234.07$; R-1 = 0.01328

χ_{eff}^2 : CMB - lowLike: 2014.36 lowl: -7.37 CamSpec: 7797.97 SN - SNLS: 428.47

6.5 base_mnu_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02205^{+0.00058}_{-0.00054}$	γ^{CIB}	0.537	$0.54^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8354	$1.833^{+0.024}_{-0.024}$
$\Omega_c h^2$	0.11891	$0.1194^{+0.0050}_{-0.0050}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00079}$	$\Omega_\nu h^2$	0.00000	< 0.00473
$100\theta_{\text{MC}}$	1.04147	$1.0413^{+0.0013}_{-0.0013}$	c_{217}	0.99636	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.767	$13.86^{+0.20}_{-0.17}$
τ	0.0942	$0.091^{+0.027}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.17	$1090.4^{+1.0}_{-1.0}$
Σm_ν	0.000	< 0.440	A^{ksZ}	1.02	—	r_*	144.86	$144.8^{+1.1}_{-1.1}$
n_s	0.9657	$0.961^{+0.014}_{-0.014}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04158	$1.0415^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.098	$3.090^{+0.052}_{-0.048}$	Ω_Λ	0.6973	$0.677^{+0.045}_{-0.052}$	z_{drag}	1059.47	$1059.2^{+1.2}_{-1.2}$
A_{100}^{PS}	145	172^{+100}_{-100}	Ω_m	0.3027	$0.323^{+0.052}_{-0.045}$	r_{drag}	147.60	$147.6^{+1.1}_{-1.1}$
A_{143}^{PS}	62.9	54^{+30}_{-30}	σ_8	0.844	$0.808^{+0.055}_{-0.073}$	k_D	0.14007	$0.1400^{+0.0012}_{-0.0012}$
A_{217}^{PS}	121.7	106^{+30}_{-30}	z_{re}	11.42	$11.2^{+2.2}_{-2.2}$	$100\theta_D$	0.16127	$0.16139^{+0.00064}_{-0.00066}$
A_{143}^{CIB}	0.0	—	H_0	68.27	$66.7^{+3.4}_{-3.9}$	z_{eq}	3371	3380^{+110}_{-110}
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.216	$2.20^{+0.12}_{-0.10}$	$100\theta_{\text{eq}}$	0.8187	$0.817^{+0.022}_{-0.021}$
A_{143}^{tSZ}	6.32	—	$\Omega_m h^2$	0.1411	$0.1431^{+0.0060}_{-0.0057}$	$r_{\text{drag}}/D_V(0.57)$	0.07212	$0.0711^{+0.0024}_{-0.0026}$
$r_{143 \times 217}^{\text{PS}}$	0.906	> 0.731	$\Omega_m h^3$	0.09632	$0.0954^{+0.0020}_{-0.0023}$			
$r_{143 \times 217}^{\text{CIB}}$	0.630	< 0.816	Y_P	0.247754	$0.24770^{+0.00025}_{-0.00023}$			

Best-fit $\chi_{\text{eff}}^2 = 9935.44$; R-1 = 0.00855

χ_{eff}^2 : CMB - lowLike: 2014.38 lowl: -7.25 CamSpec: 7797.43 SN - Union2.1: 130.22

6.6 base_mnu_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02210	$0.02200^{+0.00056}_{-0.00058}$	β_1	0.45	$0.4^{+1.1}_{-1.1}$	σ_8	0.842	$0.797^{+0.071}_{-0.10}$
$\Omega_c h^2$	0.1198	$0.1204^{+0.0054}_{-0.0052}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.5^{+1.2}_{-1.1}$	z_{re}	11.58	$11.2^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04138	$1.0412^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	75.6	77^{+9}_{-9}	H_0	67.75	$65.7^{+4.4}_{-5.5}$
τ	0.0955	$0.091^{+0.027}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.22	$7.59^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.11}$
Σm_ν	0.023	< 0.663	$A_{150}^{\text{PS, SPT}}$	9.73	$10.0^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1421	$0.1447^{+0.0081}_{-0.0072}$
n_s	0.9594	$0.957^{+0.014}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	72.5	74^{+9}_{-9}	$\Omega_m h^3$	0.09628	$0.0950^{+0.0025}_{-0.0033}$
$\ln(10^{10} A_s)$	3.0998	$3.091^{+0.051}_{-0.046}$	$r_{95 \times 150}^{\text{PS}}$	0.814	> 0.683	Y_{P}	0.247724	$0.24768^{+0.00024}_{-0.00025}$
A_{100}^{PS}	204	215^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.564	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8336	$1.834^{+0.025}_{-0.024}$
A_{143}^{PS}	72.7	74^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9077	$0.937^{+0.047}_{-0.045}$	$\Omega_\nu h^2$	0.00024	< 0.00713
A_{217}^{PS}	59.6	61^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.421	$0.44^{+0.36}_{-0.39}$	Age/Gyr	13.788	$13.90^{+0.30}_{-0.22}$
A_{143}^{CIB}	3.43	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.837	$0.85^{+0.39}_{-0.39}$	z_*	1090.34	$1090.6^{+1.2}_{-1.1}$
A_{217}^{CIB}	53.5	49^{+10}_{-9}	y_{148}^{ACTs}	0.9916	$0.992^{+0.015}_{-0.014}$	r_*	144.69	$144.6^{+1.2}_{-1.2}$
A_{143}^{tSZ}	4.93	< 4.93	y_{217}^{ACTs}	1.0029	$1.005^{+0.027}_{-0.026}$	$100\theta_*$	1.04150	$1.0414^{+0.0012}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.824	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9874	$0.988^{+0.014}_{-0.014}$	z_{drag}	1059.36	$1059.2^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9611	$0.963^{+0.021}_{-0.020}$	r_{drag}	147.45	$147.4^{+1.2}_{-1.2}$
γ^{CIB}	0.670	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9844	$0.983^{+0.039}_{-0.037}$	k_{D}	0.14017	$0.1402^{+0.0012}_{-0.0013}$
c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00079}$	y_{150}^{SPT}	0.9844	$0.986^{+0.019}_{-0.019}$	$100\theta_{\text{D}}$	0.16133	$0.16140^{+0.00064}_{-0.00062}$
c_{217}	0.99731	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0179	$1.024^{+0.047}_{-0.043}$	z_{eq}	3390	3402^{+120}_{-120}
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.690	$0.663^{+0.061}_{-0.079}$	$100\theta_{\text{eq}}$	0.8150	$0.813^{+0.023}_{-0.022}$
A^{kSZ}	1.21	$5.57^{+4.1}_{-4.3}$	Ω_m	0.310	$0.337^{+0.079}_{-0.061}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07174	$0.0705^{+0.0030}_{-0.0036}$

Best-fit $\chi_{\text{eff}}^2 = 10508.94$; R-1 = 0.00543

χ_{eff}^2 : CMB - lowLike: 2014.61 lowl: -5.95 CamSpec: 7807.69 highL: 692.51

6.7 base_mnu_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022138	$0.02214^{+0.00047}_{-0.00046}$	β_1^1	0.41	$0.4^{+1.1}_{-1.1}$	σ_8	0.8444	$0.820^{+0.040}_{-0.045}$
$\Omega_c h^2$	0.11926	$0.1186^{+0.0036}_{-0.0036}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.5^{+1.2}_{-1.2}$	z_{re}	11.60	$11.3^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04143	$1.0415^{+0.0011}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	76.0	$77.0^{+8.5}_{-9.0}$	H_0	68.11	$67.7^{+1.8}_{-1.8}$
τ	0.0961	$0.093^{+0.027}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.29	$7.65^{+3.0}_{-2.8}$	$10^9 A_s$	2.220	$2.20^{+0.12}_{-0.11}$
Σm_ν	0.000	< 0.230	$A_{150}^{\text{PS, SPT}}$	9.77	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14140	$0.1417^{+0.0033}_{-0.0033}$
n_s	0.9605	$0.961^{+0.011}_{-0.011}$	$A_{220}^{\text{PS, SPT}}$	72.8	74^{+9}_{-9}	$\Omega_m h^3$	0.09631	$0.0959^{+0.0014}_{-0.0015}$
$\ln(10^{10} A_s)$	3.100	$3.091^{+0.052}_{-0.051}$	$r_{95 \times 150}^{\text{PS}}$	0.805	> 0.683	Y_{P}	0.247740	$0.24774^{+0.00020}_{-0.00020}$
A_{100}^{PS}	203	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.557	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8316	$1.828^{+0.019}_{-0.019}$
A_{143}^{PS}	72.1	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9094	$0.937^{+0.047}_{-0.044}$	$\Omega_\nu h^2$	0.00000	< 0.00247
A_{217}^{PS}	59.9	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.44^{+0.36}_{-0.39}$	Age/Gyr	13.773	$13.81^{+0.10}_{-0.097}$
A_{143}^{CIB}	3.34	$3.26^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.839	$0.85^{+0.40}_{-0.40}$	z_*	1090.25	$1090.19^{+0.78}_{-0.75}$
A_{217}^{CIB}	52.8	50^{+10}_{-9}	y_{148}^{ACTs}	0.9918	$0.992^{+0.014}_{-0.014}$	r_*	144.80	$144.96^{+0.90}_{-0.87}$
A_{143}^{tSZ}	4.84	< 4.90	y_{217}^{ACTs}	1.0024	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04156	$1.0416^{+0.0011}_{-0.0011}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9879	$0.989^{+0.014}_{-0.014}$	z_{drag}	1059.40	$1059.4^{+1.0}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9613	$0.964^{+0.020}_{-0.020}$	r_{drag}	147.55	$147.71^{+0.95}_{-0.91}$
γ^{CIB}	0.662	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9843	$0.984^{+0.038}_{-0.037}$	k_{D}	0.14010	$0.1399^{+0.0011}_{-0.0011}$
c_{100}	1.00058	$1.00059^{+0.00079}_{-0.00077}$	y_{150}^{SPT}	0.9851	$0.988^{+0.019}_{-0.018}$	$100\theta_{\text{D}}$	0.16130	$0.16132^{+0.00061}_{-0.00060}$
c_{217}	0.99730	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0167	$1.025^{+0.047}_{-0.043}$	z_{eq}	3379	3362^{+82}_{-83}
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6952	$0.690^{+0.023}_{-0.023}$	$100\theta_{\text{eq}}$	0.8172	$0.820^{+0.016}_{-0.015}$
A^{ksSZ}	1.42	$5.45^{+4.0}_{-4.3}$	Ω_m	0.3048	$0.310^{+0.023}_{-0.023}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07200	$0.0718^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 10510.03$; R-1 = 0.01158

χ_{eff}^2 : BAO - DR7: 0.78 DR9: 0.48 6DF: 0.03 CMB - lowLike: 2014.59 lowl: -6.16 CamSpec: 7807.77 highL: 692.43

6.8 base_mnu_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02227^{+0.00054}_{-0.00054}$	β_1^1	0.43	$0.3^{+1.1}_{-1.1}$	σ_8	0.8382	$0.822^{+0.035}_{-0.038}$
$\Omega_c h^2$	0.11742	$0.1172^{+0.0046}_{-0.0045}$	$A_{148}^{\text{PS, ACT}}$	10.30	$10.5^{+1.2}_{-1.2}$	z_{re}	11.61	$11.4^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04175	$1.0417^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.2	$77.1^{+8.5}_{-8.9}$	H_0	69.01	$68.6^{+2.4}_{-2.4}$
τ	0.0973	$0.095^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.28	$7.66^{+3.0}_{-2.8}$	$10^9 A_s$	2.216	$2.21^{+0.11}_{-0.11}$
Σm_ν	0.000	< 0.181	$A_{150}^{\text{PS, SPT}}$	9.82	$10.1^{+1.1}_{-1.0}$	$\Omega_m h^2$	0.13972	$0.1402^{+0.0046}_{-0.0043}$
n_s	0.9647	$0.964^{+0.014}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	72.9	75^{+9}_{-9}	$\Omega_m h^3$	0.09642	$0.0961^{+0.0014}_{-0.0014}$
$\ln(10^{10} A_s)$	3.098	$3.093^{+0.051}_{-0.052}$	$r_{95 \times 150}^{\text{PS}}$	0.803	> 0.685	Y_{P}	0.247809	$0.24780^{+0.00023}_{-0.00023}$
A_{100}^{PS}	204	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.558	$0.59^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8242	$1.822^{+0.023}_{-0.022}$
A_{143}^{PS}	70.7	71^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9105	$0.936^{+0.046}_{-0.044}$	$\Omega_\nu h^2$	0.00000	< 0.00195
A_{217}^{PS}	59.1	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.43^{+0.36}_{-0.40}$	Age/Gyr	13.739	$13.77^{+0.12}_{-0.10}$
A_{143}^{CIB}	3.31	$3.27^{+1.7}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.840	$0.85^{+0.40}_{-0.41}$	z_*	1089.88	$1089.90^{+0.93}_{-0.96}$
A_{217}^{CIB}	52.7	50^{+10}_{-10}	y_{148}^{ACTs}	0.9925	$0.993^{+0.014}_{-0.014}$	r_*	145.15	$145.2^{+1.0}_{-1.1}$
A_{143}^{tSZ}	4.86	< 5.01	y_{217}^{ACTs}	1.0034	$1.007^{+0.026}_{-0.026}$	$100\theta_*$	1.04185	$1.0419^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9886	$0.989^{+0.015}_{-0.014}$	z_{drag}	1059.67	$1059.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9618	$0.965^{+0.020}_{-0.019}$	r_{drag}	147.86	$147.9^{+1.1}_{-1.1}$
γ^{CIB}	0.663	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9859	$0.985^{+0.039}_{-0.038}$	k_{D}	0.13990	$0.1398^{+0.0012}_{-0.0012}$
c_{100}	1.00060	$1.00059^{+0.00081}_{-0.00076}$	y_{150}^{SPT}	0.9863	$0.989^{+0.019}_{-0.018}$	$100\theta_{\text{D}}$	0.16118	$0.16123^{+0.00061}_{-0.00062}$
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0167	$1.026^{+0.048}_{-0.043}$	z_{eq}	3339	3333^{+110}_{-100}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.841	Ω_Λ	0.7066	$0.701^{+0.030}_{-0.031}$	$100\theta_{\text{eq}}$	0.8252	$0.826^{+0.021}_{-0.020}$
A^{kSZ}	1.46	$5.33^{+4.0}_{-4.4}$	Ω_m	0.2934	$0.299^{+0.031}_{-0.030}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07267	$0.0724^{+0.0018}_{-0.0018}$

Best-fit $\chi_{\text{eff}}^2 = 10513.47$; R-1 = 0.02705

χ_{eff}^2 : CMB - lowLike: 2014.52 lowl: -6.98 CamSpec: 7809.45 highL: 692.39 Hubble - HST: 4.00

6.9 base_mnu_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02218^{+0.00053}_{-0.00051}$	β_1^1	0.35	$0.4^{+1.1}_{-1.1}$	σ_8	0.8409	$0.819^{+0.041}_{-0.047}$
$\Omega_c h^2$	0.11823	$0.1181^{+0.0047}_{-0.0046}$	$A_{148}^{\text{PS, ACT}}$	10.30	$10.5^{+1.2}_{-1.2}$	z_{re}	11.61	$11.4^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04160	$1.0415^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.7	$77.0^{+8.5}_{-9.0}$	H_0	68.59	$67.9^{+2.5}_{-2.9}$
τ	0.0968	$0.094^{+0.027}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.19	$7.65^{+3.0}_{-2.8}$	$10^9 A_s$	2.217	$2.20^{+0.11}_{-0.11}$
Σm_ν	0.000	< 0.254	$A_{150}^{\text{PS, SPT}}$	9.83	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14043	$0.1413^{+0.0050}_{-0.0048}$
n_s	0.9628	$0.962^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	73.3	75^{+9}_{-9}	$\Omega_m h^3$	0.09631	$0.0959^{+0.0015}_{-0.0016}$
$\ln(10^{10} A_s)$	3.099	$3.092^{+0.052}_{-0.051}$	$r_{95 \times 150}^{\text{PS}}$	0.802	> 0.685	Y_{P}	0.247767	$0.24776^{+0.00023}_{-0.00022}$
A_{100}^{PS}	199	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.562	$0.59^{+0.24}_{-0.21}$	$10^9 A_s e^{-2\tau}$	1.8269	$1.826^{+0.023}_{-0.022}$
A_{143}^{PS}	71.8	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9116	$0.937^{+0.046}_{-0.044}$	$\Omega_\nu h^2$	0.00000	< 0.00273
A_{217}^{PS}	61.2	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.444	$0.43^{+0.36}_{-0.39}$	Age/Gyr	13.758	$13.80^{+0.14}_{-0.13}$
A_{143}^{CIB}	3.26	$3.26^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.854	$0.85^{+0.40}_{-0.40}$	z_*	1090.08	$1090.10^{+0.96}_{-0.96}$
A_{217}^{CIB}	51.8	50^{+10}_{-10}	y_{148}^{ACTs}	0.9918	$0.992^{+0.014}_{-0.014}$	r_*	145.02	$145.1^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.68	< 4.96	y_{217}^{ACTs}	1.0027	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04171	$1.0417^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.809	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9882	$0.989^{+0.015}_{-0.014}$	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9614	$0.964^{+0.020}_{-0.020}$	r_{drag}	147.75	$147.8^{+1.1}_{-1.1}$
γ^{CIB}	0.650	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9838	$0.984^{+0.039}_{-0.037}$	k_{D}	0.13993	$0.1399^{+0.0012}_{-0.0012}$
c_{100}	1.00057	$1.00059^{+0.00080}_{-0.00077}$	y_{150}^{SPT}	0.9855	$0.988^{+0.019}_{-0.018}$	$100\theta_{\text{D}}$	0.16127	$0.16130^{+0.00062}_{-0.00061}$
c_{217}	0.99736	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0137	$1.025^{+0.047}_{-0.043}$	z_{eq}	3355	3352^{+110}_{-100}
$\xi^{\text{tSZ-CIB}}$	0.01	—	Ω_Λ	0.7015	$0.693^{+0.034}_{-0.037}$	$100\theta_{\text{eq}}$	0.8217	$0.822^{+0.020}_{-0.020}$
A^{kSZ}	1.71	$5.41^{+4.0}_{-4.3}$	Ω_{m}	0.2985	$0.307^{+0.037}_{-0.034}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07237	$0.0719^{+0.0019}_{-0.0020}$

Best-fit $\chi_{\text{eff}}^2 = 10937.43$; R-1 = 0.01436

χ_{eff}^2 : CMB - lowLike: 2014.56 lowl: -6.66 CamSpec: 7808.33 highL: 692.61 SN - SNLS: 428.42

6.10 base_mnu_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02207	$0.02209^{+0.00052}_{-0.00052}$	β_1^1	0.47	$0.4^{+1.1}_{-1.1}$	σ_8	0.847	$0.813^{+0.050}_{-0.061}$
$\Omega_c h^2$	0.12024	$0.1193^{+0.0049}_{-0.0047}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.5^{+1.2}_{-1.2}$	z_{re}	11.52	$11.3^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04132	$1.0413^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.1	$76.9^{+8.5}_{-9.0}$	H_0	67.67	$67.0^{+3.1}_{-3.4}$
τ	0.0946	$0.092^{+0.027}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.14	$7.63^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.11}$
Σm_ν	0.000	< 0.364	$A_{150}^{\text{PS, SPT}}$	9.76	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1423	$0.1428^{+0.0056}_{-0.0055}$
n_s	0.9582	$0.959^{+0.014}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	72.7	74^{+9}_{-9}	$\Omega_m h^3$	0.09630	$0.0956^{+0.0018}_{-0.0020}$
$\ln(10^{10} A_s)$	3.099	$3.091^{+0.051}_{-0.050}$	$r_{95 \times 150}^{\text{PS}}$	0.815	> 0.684	Y_{P}	0.247712	$0.24772^{+0.00022}_{-0.00023}$
A_{100}^{PS}	203	214^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.566	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8362	$1.831^{+0.024}_{-0.023}$
A_{143}^{PS}	72.6	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9092	$0.937^{+0.047}_{-0.044}$	$\Omega_\nu h^2$	0.00000	< 0.00391
A_{217}^{PS}	61.4	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.415	$0.44^{+0.36}_{-0.39}$	Age/Gyr	13.788	$13.84^{+0.18}_{-0.15}$
A_{143}^{CIB}	3.41	$3.25^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.85^{+0.39}_{-0.40}$	z_*	1090.42	$1090.33^{+0.98}_{-0.95}$
A_{217}^{CIB}	52.5	50^{+10}_{-9}	y_{148}^{ACTs}	0.9914	$0.992^{+0.014}_{-0.014}$	r_*	144.59	$144.8^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.99	< 4.93	y_{217}^{ACTs}	1.0017	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04144	$1.0415^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9876	$0.988^{+0.014}_{-0.014}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9603	$0.964^{+0.020}_{-0.020}$	r_{drag}	147.36	$147.6^{+1.1}_{-1.1}$
γ^{CIB}	0.658	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9832	$0.984^{+0.039}_{-0.038}$	k_{D}	0.14025	$0.1400^{+0.0012}_{-0.0012}$
c_{100}	1.00058	$1.00059^{+0.00079}_{-0.00078}$	y_{150}^{SPT}	0.9843	$0.987^{+0.019}_{-0.018}$	$100\theta_{\text{D}}$	0.16134	$0.16135^{+0.00063}_{-0.00061}$
c_{217}	0.99733	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0160	$1.024^{+0.047}_{-0.043}$	z_{eq}	3401	3379^{+110}_{-110}
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6892	$0.681^{+0.041}_{-0.045}$	$100\theta_{\text{eq}}$	0.8130	$0.817^{+0.021}_{-0.020}$
A^{kSZ}	1.18	$5.47^{+4.0}_{-4.3}$	Ω_m	0.3108	$0.319^{+0.045}_{-0.041}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07166	$0.0713^{+0.0022}_{-0.0023}$

Best-fit $\chi_{\text{eff}}^2 = 10639.32$; R-1 = 0.00864

χ_{eff}^2 : CMB - lowLike: 2014.55 lowl: -5.65 CamSpec: 7807.06 highL: 692.84 SN - Union2.1: 130.43

6.11 base_mnu_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02191^{+0.00072}_{-0.00069}$	γ^{CIB}	0.548	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8386	$1.833^{+0.031}_{-0.030}$
$\Omega_c h^2$	0.1197	$0.1203^{+0.0065}_{-0.0062}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00079}$	$\Omega_\nu h^2$	0.0001	< 0.0132
$100\theta_{\text{MC}}$	1.04143	$1.0410^{+0.0014}_{-0.0014}$	c_{217}	0.99639	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.779	$14.05^{+0.41}_{-0.36}$
τ	0.093	$0.114^{+0.079}_{-0.083}$	$\xi^{\text{tSZ-CIB}}$	0.14	—	z_*	1090.31	$1090.8^{+1.6}_{-1.5}$
Σm_ν	0.01	< 1.23	A^{kSZ}	1.00	—	r_*	144.70	$144.5^{+1.4}_{-1.5}$
n_s	0.9639	$0.959^{+0.020}_{-0.020}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04155	$1.0414^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.098	$3.14^{+0.15}_{-0.16}$	Ω_Λ	0.692	$0.63^{+0.10}_{-0.12}$	z_{drag}	1059.40	$1059.1^{+1.3}_{-1.3}$
A_{100}^{PS}	143	171^{+100}_{-100}	Ω_m	0.308	$0.37^{+0.12}_{-0.10}$	r_{drag}	147.46	$147.3^{+1.4}_{-1.4}$
A_{143}^{PS}	62.5	55^{+30}_{-30}	σ_8	0.846	$0.76^{+0.12}_{-0.14}$	k_D	0.14018	$0.1403^{+0.0014}_{-0.0014}$
A_{217}^{PS}	121.8	107^{+30}_{-40}	z_{re}	11.4	$13.1^{+6.7}_{-7.4}$	$100\theta_D$	0.16131	$0.16140^{+0.00074}_{-0.00073}$
A_{143}^{CIB}	0.0	—	H_0	67.9	$63.3^{+6.7}_{-7.3}$	z_{eq}	3388	3398^{+140}_{-140}
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.216	$2.31^{+0.35}_{-0.36}$	$100\theta_{\text{eq}}$	0.8154	$0.814^{+0.027}_{-0.027}$
A_{143}^{tSZ}	6.66	—	$\Omega_m h^2$	0.1419	$0.148^{+0.011}_{-0.010}$	$r_{\text{drag}}/D_V(0.57)$	0.07185	$0.0690^{+0.0044}_{-0.0047}$
$r_{143 \times 217}^{\text{PS}}$	0.915	> 0.737	$\Omega_m h^3$	0.09636	$0.0933^{+0.0040}_{-0.0046}$			
$r_{143 \times 217}^{\text{CIB}}$	0.599	< 0.817	Y_P	0.247732	$0.24764^{+0.00031}_{-0.00031}$			

Best-fit $\chi_{\text{eff}}^2 = 7790.85$; R-1 = 0.00768

χ_{eff}^2 : CMB - lowl: -6.90 CamSpec: 7797.18

6.12 base_mnu_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02172	$0.02186^{+0.00071}_{-0.00067}$	γ^{CIB}	0.532	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8455	$1.829^{+0.032}_{-0.031}$
$\Omega_c h^2$	0.1229	$0.1201^{+0.0065}_{-0.0065}$	c_{100}	1.00058	$1.00058^{+0.00078}_{-0.00080}$	$\Omega_\nu h^2$	0.0072	< 0.0156
$100\theta_{\text{MC}}$	1.04057	$1.0409^{+0.0014}_{-0.0014}$	c_{217}	0.99645	$0.9964^{+0.0027}_{-0.0026}$	Age/Gyr	14.176	$14.21^{+0.33}_{-0.41}$
τ	0.094	$0.136^{+0.068}_{-0.073}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.29	$1091.0^{+1.6}_{-1.5}$
Σm_ν	0.67	< 1.45	A^{ksZ}	0.2	—	r_*	143.94	$144.4^{+1.5}_{-1.6}$
n_s	0.9525	$0.958^{+0.021}_{-0.021}$	β_1^1	0.71	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04101	$1.0413^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.103	$3.18^{+0.12}_{-0.13}$	Ω_Λ	0.589	$0.58^{+0.13}_{-0.12}$	z_{drag}	1058.83	$1059.1^{+1.3}_{-1.2}$
A_{100}^{PS}	158	167^{+100}_{-100}	Ω_m	0.411	$0.42^{+0.12}_{-0.13}$	r_{drag}	146.80	$147.2^{+1.4}_{-1.5}$
A_{143}^{PS}	52.0	54^{+30}_{-30}	σ_8	0.712	$0.70^{+0.12}_{-0.10}$	k_D	0.14070	$0.1405^{+0.0015}_{-0.0015}$
A_{217}^{PS}	114.2	107^{+30}_{-30}	z_{re}	11.8	$15.1^{+5.5}_{-5.8}$	$100\theta_D$	0.16149	$0.16130^{+0.00073}_{-0.00072}$
A_{143}^{CIB}	6.63	—	H_0	60.7	61^{+7}_{-6}	z_{eq}	3455	3392^{+150}_{-140}
A_{217}^{CIB}	30.2	29^{+20}_{-10}	$10^9 A_s$	2.227	$2.40^{+0.31}_{-0.31}$	$100\theta_{\text{eq}}$	0.8033	$0.816^{+0.028}_{-0.027}$
A_{143}^{tSZ}	8.33	—	$\Omega_m h^2$	0.1517	$0.151^{+0.011}_{-0.011}$	$r_{\text{drag}}/D_V(0.57)$	0.06721	$0.0673^{+0.0048}_{-0.0039}$
$r_{143 \times 217}^{\text{PS}}$	0.888	> 0.740	$\Omega_m h^3$	0.09215	$0.0914^{+0.0045}_{-0.0037}$			
$r_{143 \times 217}^{\text{CIB}}$	0.49	—	Y_P	0.247560	$0.24762^{+0.00030}_{-0.00030}$			

Best-fit $\chi_{\text{eff}}^2 = 7800.88$; R-1 = 0.01737

χ_{eff}^2 : CMB - lensing: 7.16 lowl: -6.26 CamSpec: 7799.27

6.13 base_mnu_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02216	$0.02220^{+0.00057}_{-0.00053}$	γ^{CIB}	0.535	$0.53^{+0.25}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8357	$1.826^{+0.022}_{-0.024}$
$\Omega_c h^2$	0.11920	$0.1178^{+0.0041}_{-0.0042}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00359
$100\theta_{\text{MC}}$	1.04141	$1.0415^{+0.0012}_{-0.0011}$	c_{217}	0.99631	$0.9964^{+0.0027}_{-0.0028}$	Age/Gyr	13.772	$13.82^{+0.12}_{-0.11}$
τ	0.096	$0.115^{+0.071}_{-0.074}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.22	$1090.05^{+0.90}_{-0.94}$
Σm_ν	0.000	< 0.334	A^{kSZ}	0.0	—	r_*	144.80	$145.12^{+0.96}_{-0.92}$
n_s	0.9651	$0.967^{+0.015}_{-0.014}$	β_1^1	0.64	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04154	$1.0417^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.102	$3.13^{+0.13}_{-0.14}$	Ω_Λ	0.6956	$0.691^{+0.024}_{-0.025}$	z_{drag}	1059.44	$1059.5^{+1.2}_{-1.2}$
A_{100}^{PS}	142	164^{+100}_{-100}	Ω_m	0.3044	$0.309^{+0.025}_{-0.024}$	r_{drag}	147.54	$147.86^{+0.98}_{-0.94}$
A_{143}^{PS}	59.2	52^{+30}_{-30}	σ_8	0.846	$0.828^{+0.058}_{-0.063}$	k_D	0.14012	$0.1398^{+0.0011}_{-0.0011}$
A_{217}^{PS}	122.0	107^{+30}_{-30}	z_{re}	11.6	$13.0^{+5.9}_{-6.3}$	$100\theta_D$	0.16127	$0.16127^{+0.00069}_{-0.00069}$
A_{143}^{CIB}	1.46	—	H_0	68.14	$67.7^{+1.8}_{-2.0}$	z_{eq}	3378	3344^{+94}_{-96}
A_{217}^{CIB}	25	28^{+20}_{-10}	$10^9 A_s$	2.224	$2.30^{+0.32}_{-0.31}$	$100\theta_{\text{eq}}$	0.8174	$0.824^{+0.019}_{-0.018}$
A_{143}^{tSZ}	7.40	—	$\Omega_m h^2$	0.14136	$0.1413^{+0.0035}_{-0.0033}$	$r_{\text{drag}}/D_V(0.57)$	0.07202	$0.0718^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.893	> 0.742	$\Omega_m h^3$	0.09632	$0.0956^{+0.0016}_{-0.0017}$			
$r_{143 \times 217}^{\text{CIB}}$	0.188	< 0.790	Y_P	0.247748	$0.24777^{+0.00024}_{-0.00023}$			

Best-fit $\chi_{\text{eff}}^2 = 7791.94$; R-1 = 0.01769

χ_{eff}^2 : BAO - DR7: 0.75 6DF: 0.04 DR9: 0.50 CMB - lowl: -7.05 CamSpec: 7797.03

6.14 base_mnu_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02227	$0.02239^{+0.00061}_{-0.00060}$	γ^{CIB}	0.529	$0.52^{+0.25}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8301	$1.818^{+0.026}_{-0.026}$
$\Omega_c h^2$	0.1176	$0.1159^{+0.0053}_{-0.0053}$	c_{100}	1.00061	$1.00060^{+0.00079}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00262
$100\theta_{\text{MC}}$	1.04166	$1.0419^{+0.0013}_{-0.0013}$	c_{217}	0.99638	$0.9964^{+0.0028}_{-0.0027}$	Age/Gyr	13.745	$13.76^{+0.13}_{-0.13}$
τ	0.096	$0.128^{+0.068}_{-0.075}$	$\xi^{\text{tSZ-CIB}}$	0.14	—	z_*	1089.93	$1089.6^{+1.1}_{-1.1}$
Σm_ν	0.000	< 0.244	A^{kSZ}	0.7	—	r_*	145.12	$145.5^{+1.2}_{-1.2}$
n_s	0.9688	$0.972^{+0.017}_{-0.017}$	β_1^1	0.62	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04177	$1.0420^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.099	$3.16^{+0.13}_{-0.14}$	Ω_Λ	0.7053	$0.707^{+0.035}_{-0.034}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
A_{100}^{PS}	146	160^{+100}_{-100}	Ω_m	0.2947	$0.293^{+0.034}_{-0.035}$	r_{drag}	147.83	$148.2^{+1.2}_{-1.1}$
A_{143}^{PS}	63.5	50^{+30}_{-20}	σ_8	0.840	$0.841^{+0.058}_{-0.058}$	k_D	0.13990	$0.1397^{+0.0013}_{-0.0013}$
A_{217}^{PS}	121.6	107^{+30}_{-30}	z_{re}	11.5	$13.9^{+5.3}_{-5.9}$	$100\theta_D$	0.16120	$0.16113^{+0.00069}_{-0.00070}$
A_{143}^{CIB}	0.0	—	H_0	68.89	$69.0^{+2.9}_{-2.8}$	z_{eq}	3342	3305^{+120}_{-120}
A_{217}^{CIB}	24	27^{+10}_{-10}	$10^9 A_s$	2.218	$2.36^{+0.31}_{-0.32}$	$100\theta_{\text{eq}}$	0.8244	$0.832^{+0.025}_{-0.023}$
A_{143}^{tSZ}	6.09	—	$\Omega_m h^2$	0.1399	$0.1393^{+0.0051}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07259	$0.0728^{+0.0022}_{-0.0020}$
$r_{143 \times 217}^{\text{PS}}$	0.897	> 0.732	$\Omega_m h^3$	0.09637	$0.0960^{+0.0014}_{-0.0016}$			
$r_{143 \times 217}^{\text{CIB}}$	0.605	< 0.753	Y_P	0.247798	$0.24785^{+0.00027}_{-0.00026}$			

Best-fit $\chi_{\text{eff}}^2 = 7795.60$; R-1 = 0.04182

χ_{eff}^2 : CMB - lowl: -7.68 CamSpec: 7798.36 Hubble - HST: 4.19

6.15 base_mnu_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02226^{+0.00066}_{-0.00061}$	γ^{CIB}	0.557	$0.53^{+0.25}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8325	$1.823^{+0.027}_{-0.028}$
$\Omega_c h^2$	0.1181	$0.1171^{+0.0056}_{-0.0053}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00403
$100\theta_{\text{MC}}$	1.04159	$1.0416^{+0.0013}_{-0.0013}$	c_{217}	0.99648	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.755	$13.80^{+0.17}_{-0.16}$
τ	0.095	$0.121^{+0.071}_{-0.078}$	$\xi^{\text{tSZ-CIB}}$	0.21	—	z_*	1090.04	$1089.9^{+1.2}_{-1.1}$
Σm_ν	0.000	< 0.375	A^{ksZ}	0.7	—	r_*	145.02	$145.3^{+1.2}_{-1.2}$
n_s	0.9674	$0.969^{+0.018}_{-0.017}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04169	$1.0418^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.098	$3.14^{+0.13}_{-0.15}$	Ω_Λ	0.7020	$0.695^{+0.041}_{-0.044}$	z_{drag}	1059.55	$1059.6^{+1.3}_{-1.2}$
A_{100}^{PS}	152	162^{+100}_{-100}	Ω_m	0.2980	$0.305^{+0.044}_{-0.041}$	r_{drag}	147.74	$148.0^{+1.2}_{-1.2}$
A_{143}^{PS}	64.8	51^{+30}_{-30}	σ_8	0.842	$0.830^{+0.067}_{-0.070}$	k_D	0.13996	$0.1398^{+0.0012}_{-0.0012}$
A_{217}^{PS}	119.9	107^{+30}_{-30}	z_{re}	11.4	$13.4^{+5.8}_{-6.4}$	$100\theta_D$	0.16123	$0.16123^{+0.00071}_{-0.00071}$
A_{143}^{CIB}	0.0	—	H_0	68.63	$68.0^{+3.1}_{-3.6}$	z_{eq}	3354	3329^{+120}_{-120}
A_{217}^{CIB}	25	28^{+20}_{-10}	$10^9 A_s$	2.215	$2.33^{+0.32}_{-0.33}$	$100\theta_{\text{eq}}$	0.8220	$0.827^{+0.024}_{-0.024}$
A_{143}^{tSZ}	5.76	—	$\Omega_m h^2$	0.1404	$0.1407^{+0.0058}_{-0.0056}$	$r_{\text{drag}}/D_V(0.57)$	0.07239	$0.0721^{+0.0023}_{-0.0025}$
$r_{143 \times 217}^{\text{PS}}$	0.916	> 0.736	$\Omega_m h^3$	0.09634	$0.0957^{+0.0018}_{-0.0020}$			
$r_{143 \times 217}^{\text{CIB}}$	0.653	< 0.780	Y_P	0.247778	$0.24779^{+0.00028}_{-0.00026}$			

Best-fit $\chi_{\text{eff}}^2 = 8219.58$; R-1 = 0.01718

χ_{eff}^2 : CMB - lowl: -7.52 CamSpec: 7798.21 SN - SNLS: 428.38

6.16 base_mnu_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02212^{+0.00065}_{-0.00065}$	γ^{CIB}	0.574	$0.53^{+0.25}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8388	$1.828^{+0.028}_{-0.029}$
$\Omega_c h^2$	0.1196	$0.1185^{+0.0058}_{-0.0056}$	c_{100}	1.00055	$1.00059^{+0.00079}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00654
$100\theta_{\text{MC}}$	1.04137	$1.0414^{+0.0013}_{-0.0013}$	c_{217}	0.99641	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.779	$13.87^{+0.25}_{-0.20}$
τ	0.093	$0.114^{+0.076}_{-0.080}$	$\xi^{\text{tSZ-CIB}}$	0.53	—	z_*	1090.31	$1090.2^{+1.2}_{-1.2}$
Σm_ν	0.000	< 0.609	A^{kSZ}	1.12	—	r_*	144.72	$145.0^{+1.2}_{-1.2}$
n_s	0.9641	$0.965^{+0.018}_{-0.018}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04150	$1.0416^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.097	$3.13^{+0.14}_{-0.15}$	Ω_Λ	0.693	$0.676^{+0.053}_{-0.061}$	z_{drag}	1059.40	$1059.4^{+1.3}_{-1.2}$
A_{100}^{PS}	163	166^{+100}_{-100}	Ω_m	0.307	$0.324^{+0.061}_{-0.053}$	r_{drag}	147.48	$147.7^{+1.2}_{-1.2}$
A_{143}^{PS}	67.2	53^{+30}_{-30}	σ_8	0.846	$0.811^{+0.081}_{-0.091}$	k_D	0.14015	$0.1399^{+0.0012}_{-0.0012}$
A_{217}^{PS}	119.3	107^{+30}_{-30}	z_{re}	11.3	$12.9^{+6.3}_{-6.9}$	$100\theta_D$	0.16131	$0.16132^{+0.00071}_{-0.00073}$
A_{143}^{CIB}	0.0	—	H_0	67.94	$66.6^{+4.0}_{-4.5}$	z_{eq}	3387	3361^{+130}_{-120}
A_{217}^{CIB}	25	28^{+20}_{-10}	$10^9 A_s$	2.214	$2.30^{+0.34}_{-0.33}$	$100\theta_{\text{eq}}$	0.8157	$0.821^{+0.025}_{-0.025}$
A_{143}^{tSZ}	4.57	—	$\Omega_m h^2$	0.1417	$0.1429^{+0.0068}_{-0.0064}$	$r_{\text{drag}}/D_V(0.57)$	0.07187	$0.0711^{+0.0028}_{-0.0030}$
$r_{143 \times 217}^{\text{PS}}$	0.959	> 0.738	$\Omega_m h^3$	0.09630	$0.0951^{+0.0023}_{-0.0029}$			
$r_{143 \times 217}^{\text{CIB}}$	0.760	< 0.802	Y_P	0.247729	$0.24773^{+0.00028}_{-0.00026}$			

Best-fit $\chi_{\text{eff}}^2 = 7921.48$; R-1 = 0.00977

χ_{eff}^2 : CMB - lowl: -6.98 CamSpec: 7797.73 SN - Union2.1: 130.33

6.17 base_mnu_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02265	$0.0223^{+0.0011}_{-0.0011}$	σ_8	0.815	$0.71^{+0.13}_{-0.14}$	z_*	1089.20	$1089.8^{+2.0}_{-2.0}$
$\Omega_c h^2$	0.1146	$0.1151^{+0.0095}_{-0.0090}$	z_{re}	10.93	$10.7^{+2.2}_{-2.2}$	r_*	145.62	$145.5^{+2.4}_{-2.4}$
$100\theta_{\text{MC}}$	1.04033	$1.0398^{+0.0044}_{-0.0044}$	H_0	69.3	65^{+8}_{-8}	$100\theta_*$	1.04044	$1.0401^{+0.0043}_{-0.0043}$
τ	0.0913	$0.087^{+0.028}_{-0.028}$	$10^9 A_s$	2.221	$2.19^{+0.14}_{-0.13}$	z_{drag}	1060.28	$1059.7^{+2.2}_{-2.3}$
Σm_ν	0.07	< 1.22	$\Omega_m h^2$	0.1380	$0.143^{+0.014}_{-0.013}$	r_{drag}	148.22	$148.2^{+2.5}_{-2.5}$
n_s	0.9729	$0.965^{+0.030}_{-0.031}$	$\Omega_m h^3$	0.0957	$0.0925^{+0.0050}_{-0.0054}$	k_D	0.13978	$0.1397^{+0.0028}_{-0.0028}$
$\ln(10^{10} A_s)$	3.101	$3.088^{+0.061}_{-0.058}$	Y_P	0.247958	$0.24783^{+0.00044}_{-0.00047}$	$100\theta_D$	0.16058	$0.1608^{+0.0011}_{-0.0010}$
A_{tSZ}	1.08	—	$10^9 A_s e^{-2\tau}$	1.850	$1.844^{+0.061}_{-0.060}$	z_{eq}	3280	3285^{+220}_{-210}
Ω_Λ	0.713	$0.65^{+0.11}_{-0.13}$	$\Omega_\nu h^2$	0.0008	< 0.0131	$100\theta_{\text{eq}}$	0.8362	$0.836^{+0.042}_{-0.041}$
Ω_m	0.287	$0.35^{+0.13}_{-0.11}$	Age/Gyr	13.762	$14.04^{+0.46}_{-0.43}$	$r_{\text{drag}}/D_V(0.57)$	0.0729	$0.0701^{+0.0053}_{-0.0054}$

Best-fit $\chi^2_{\text{eff}} = 7558.07$; R-1 = 0.00651
 χ^2_{eff} : CMB - WMAP: 7558.07

6.18 base_mnu_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02257	$0.02256^{+0.00086}_{-0.00088}$	σ_8	0.783	$0.759^{+0.093}_{-0.10}$	z_*	1089.32	$1089.2^{+1.2}_{-1.1}$
$\Omega_c h^2$	0.1146	$0.1133^{+0.0063}_{-0.0066}$	z_{re}	10.86	$10.8^{+2.3}_{-2.2}$	r_*	145.65	$146.0^{+1.8}_{-1.8}$
$100\theta_{\text{MC}}$	1.04020	$1.0400^{+0.0040}_{-0.0043}$	H_0	67.94	$67.7^{+2.2}_{-2.2}$	$100\theta_*$	1.04039	$1.0402^{+0.0040}_{-0.0042}$
τ	0.0898	$0.089^{+0.029}_{-0.026}$	$10^9 A_s$	2.218	$2.20^{+0.14}_{-0.14}$	z_{drag}	1060.09	$1060.0^{+2.1}_{-2.2}$
Σm_ν	0.204	< 0.595	$\Omega_m h^2$	0.1394	$0.1388^{+0.0053}_{-0.0050}$	r_{drag}	148.28	$148.6^{+2.0}_{-2.0}$
n_s	0.9730	$0.972^{+0.022}_{-0.021}$	$\Omega_m h^3$	0.09471	$0.0940^{+0.0038}_{-0.0038}$	k_D	0.13968	$0.1393^{+0.0024}_{-0.0025}$
$\ln(10^{10} A_s)$	3.099	$3.090^{+0.065}_{-0.059}$	Y_P	0.247924	$0.24792^{+0.00036}_{-0.00038}$	$100\theta_D$	0.16065	$0.1607^{+0.0010}_{-0.00093}$
A_{tSZ}	0.03	—	$10^9 A_s e^{-2\tau}$	1.853	$1.839^{+0.053}_{-0.054}$	z_{eq}	3279	3246^{+150}_{-160}
Ω_Λ	0.6980	$0.697^{+0.025}_{-0.026}$	$\Omega_\nu h^2$	0.00219	< 0.00639	$100\theta_{\text{eq}}$	0.8362	$0.843^{+0.032}_{-0.030}$
Ω_m	0.3020	$0.303^{+0.026}_{-0.025}$	Age/Gyr	13.845	$13.88^{+0.21}_{-0.21}$	$r_{\text{drag}}/D_V(0.57)$	0.07207	$0.0720^{+0.0015}_{-0.0014}$

Best-fit $\chi^2_{\text{eff}} = 7559.18$; R-1 = 0.02076

χ^2_{eff} : BAO - 6DF: 0.02 DR7: 0.64 DR9: 0.57 CMB - WMAP: 7557.96

6.19 base_mnu_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02282	$0.02291^{+0.00086}_{-0.00092}$	σ_8	0.818	$0.779^{+0.069}_{-0.074}$	z_*	1088.70	$1088.5^{+1.3}_{-1.2}$
$\Omega_c h^2$	0.1114	$0.1098^{+0.0073}_{-0.0070}$	z_{re}	11.06	$10.9^{+2.3}_{-2.4}$	r_*	146.36	$146.7^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04091	$1.0413^{+0.0041}_{-0.0043}$	H_0	71.44	$71.1^{+3.8}_{-3.7}$	$100\theta_*$	1.04098	$1.0414^{+0.0041}_{-0.0042}$
τ	0.0946	$0.094^{+0.029}_{-0.029}$	$10^9 A_s$	2.220	$2.20^{+0.15}_{-0.14}$	z_{drag}	1060.43	$1060.5^{+2.0}_{-2.2}$
Σm_ν	0.002	< 0.357	$\Omega_m h^2$	0.1342	$0.1342^{+0.0075}_{-0.0071}$	r_{drag}	148.92	$149.2^{+2.3}_{-2.2}$
n_s	0.9809	$0.982^{+0.022}_{-0.023}$	$\Omega_m h^3$	0.09587	$0.0953^{+0.0035}_{-0.0037}$	k_D	0.13917	$0.1389^{+0.0026}_{-0.0027}$
$\ln(10^{10} A_s)$	3.100	$3.091^{+0.067}_{-0.066}$	Y_P	0.248030	$0.24807^{+0.00035}_{-0.00039}$	$100\theta_D$	0.16056	$0.1606^{+0.0010}_{-0.00091}$
A_{tSZ}	0.10	—	$10^9 A_s e^{-2\tau}$	1.838	$1.824^{+0.055}_{-0.055}$	z_{eq}	3206	3171^{+170}_{-160}
Ω_Λ	0.7370	$0.734^{+0.037}_{-0.042}$	$\Omega_\nu h^2$	0.00002	< 0.00384	$100\theta_{\text{eq}}$	0.8515	$0.860^{+0.034}_{-0.034}$
Ω_m	0.2630	$0.266^{+0.042}_{-0.037}$	Age/Gyr	13.680	$13.72^{+0.23}_{-0.20}$	$r_{\text{drag}}/D_V(0.57)$	0.07455	$0.0745^{+0.0030}_{-0.0027}$

Best-fit $\chi^2_{\text{eff}} = 7559.36$; R-1 = 0.04451

χ^2_{eff} : CMB - WMAP: 7558.33 Hubble - HST: 1.03

6.20 base_mnu_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02272	$0.02275^{+0.00092}_{-0.00095}$	σ_8	0.819	$0.768^{+0.080}_{-0.093}$	z_*	1088.87	$1088.8^{+1.5}_{-1.4}$
$\Omega_c h^2$	0.1118	$0.1106^{+0.0078}_{-0.0073}$	z_{re}	11.06	$10.9^{+2.3}_{-2.2}$	r_*	146.31	$146.6^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04031	$1.0407^{+0.0043}_{-0.0043}$	H_0	70.96	$69.9^{+4.5}_{-4.7}$	$100\theta_*$	1.04039	$1.0408^{+0.0043}_{-0.0043}$
τ	0.0942	$0.092^{+0.029}_{-0.028}$	$10^9 A_s$	2.218	$2.20^{+0.14}_{-0.14}$	z_{drag}	1060.24	$1060.2^{+2.0}_{-2.3}$
Σm_ν	0.001	< 0.511	$\Omega_m h^2$	0.1346	$0.1354^{+0.0081}_{-0.0079}$	r_{drag}	148.90	$149.2^{+2.3}_{-2.2}$
n_s	0.9780	$0.978^{+0.024}_{-0.024}$	$\Omega_m h^3$	0.09550	$0.0946^{+0.0038}_{-0.0041}$	k_D	0.13912	$0.1389^{+0.0026}_{-0.0026}$
$\ln(10^{10} A_s)$	3.099	$3.089^{+0.065}_{-0.065}$	Y_P	0.247988	$0.24800^{+0.00038}_{-0.00040}$	$100\theta_D$	0.16058	$0.1606^{+0.0010}_{-0.00092}$
A_{tSZ}	0.37	—	$10^9 A_s e^{-2\tau}$	1.837	$1.826^{+0.055}_{-0.055}$	z_{eq}	3215	3187^{+180}_{-170}
Ω_Λ	0.733	$0.721^{+0.051}_{-0.053}$	$\Omega_\nu h^2$	0.00001	< 0.00550	$100\theta_{\text{eq}}$	0.8489	$0.856^{+0.036}_{-0.036}$
Ω_m	0.267	$0.279^{+0.053}_{-0.051}$	Age/Gyr	13.711	$13.79^{+0.29}_{-0.27}$	$r_{\text{drag}}/D_V(0.57)$	0.07422	$0.0736^{+0.0035}_{-0.0033}$

Best-fit $\chi^2_{\text{eff}} = 7984.54$; R-1 = 0.02385

χ^2_{eff} : CMB - WMAP: 7558.16 SN - SNLS: 426.38

6.21 base_mnu_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02270	$0.02258^{+0.00092}_{-0.00096}$	σ_8	0.822	$0.75^{+0.10}_{-0.11}$	z_*	1089.04	$1089.2^{+1.5}_{-1.4}$
$\Omega_c h^2$	0.1135	$0.1129^{+0.0080}_{-0.0076}$	z_{re}	10.99	$10.8^{+2.3}_{-2.2}$	r_*	145.88	$146.1^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04039	$1.0402^{+0.0042}_{-0.0044}$	H_0	70.2	$67.8^{+5.0}_{-5.6}$	$100\theta_*$	1.04047	$1.0404^{+0.0042}_{-0.0043}$
τ	0.0928	$0.090^{+0.029}_{-0.026}$	$10^9 A_s$	2.221	$2.20^{+0.14}_{-0.14}$	z_{drag}	1060.31	$1060.0^{+2.1}_{-2.2}$
Σm_ν	0.020	< 0.743	$\Omega_m h^2$	0.1364	$0.1387^{+0.0090}_{-0.0086}$	r_{drag}	148.47	$148.7^{+2.3}_{-2.2}$
n_s	0.9753	$0.972^{+0.025}_{-0.024}$	$\Omega_m h^3$	0.09580	$0.0939^{+0.0044}_{-0.0045}$	k_D	0.13956	$0.1393^{+0.0026}_{-0.0027}$
$\ln(10^{10} A_s)$	3.100	$3.089^{+0.063}_{-0.063}$	Y_P	0.247980	$0.24793^{+0.00039}_{-0.00041}$	$100\theta_D$	0.16056	$0.1607^{+0.0010}_{-0.00096}$
A_{tSZ}	1.00	—	$10^9 A_s e^{-2\tau}$	1.845	$1.836^{+0.058}_{-0.056}$	z_{eq}	3254	3237^{+190}_{-180}
Ω_Λ	0.723	$0.696^{+0.063}_{-0.069}$	$\Omega_\nu h^2$	0.00021	< 0.00799	$100\theta_{\text{eq}}$	0.8413	$0.845^{+0.037}_{-0.036}$
Ω_m	0.277	$0.304^{+0.069}_{-0.063}$	Age/Gyr	13.725	$13.89^{+0.34}_{-0.31}$	$r_{\text{drag}}/D_V(0.57)$	0.07361	$0.0721^{+0.0037}_{-0.0037}$

Best-fit $\chi^2_{\text{eff}} = 7687.90$; R-1 = 0.01195

χ^2_{eff} : CMB - WMAP: 7558.03 SN - Union2.1: 129.87

6.22 base_mnu_planck_lowl_lowLike_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02229	$0.02184^{+0.00069}_{-0.00072}$	γ^{CIB}	0.535	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8301	$1.840^{+0.025}_{-0.025}$
$\Omega_c h^2$	0.1176	$0.1215^{+0.0061}_{-0.0057}$	c_{100}	1.00060	$1.00057^{+0.00078}_{-0.00078}$	$\Omega_\nu h^2$	0.0005	< 0.0119
$100\theta_{\text{MC}}$	1.04154	$1.0408^{+0.0014}_{-0.0014}$	c_{217}	0.99631	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.765	$14.06^{+0.39}_{-0.36}$
τ	0.0954	$0.091^{+0.026}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.90	$1091.0^{+1.7}_{-1.6}$
Σm_ν	0.05	< 1.11	A^{ksZ}	0.6	—	r_*	145.11	$144.3^{+1.5}_{-1.5}$
n_s	0.9691	$0.955^{+0.018}_{-0.020}$	β_1^1	0.69	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04168	$1.0412^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.0978	$3.095^{+0.049}_{-0.046}$	Ω_Λ	0.701	$0.62^{+0.11}_{-0.13}$	z_{drag}	1059.67	$1059.0^{+1.3}_{-1.3}$
A_{100}^{PS}	129	177^{+100}_{-100}	Ω_m	0.299	$0.38^{+0.13}_{-0.11}$	r_{drag}	147.82	$147.1^{+1.4}_{-1.4}$
A_{143}^{PS}	57.0	55^{+30}_{-30}	σ_8	0.832	$0.75^{+0.10}_{-0.11}$	k_D	0.13994	$0.1404^{+0.0015}_{-0.0013}$
A_{217}^{PS}	121.2	106^{+30}_{-30}	z_{re}	11.46	$11.4^{+2.2}_{-2.2}$	$100\theta_D$	0.16115	$0.16145^{+0.00071}_{-0.00068}$
A_{143}^{CIB}	0.0	—	H_0	68.5	$63.0^{+6.9}_{-7.3}$	z_{eq}	3342	3425^{+130}_{-130}
A_{217}^{CIB}	24	30^{+20}_{-10}	$10^9 A_s$	2.215	$2.21^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8244	$0.809^{+0.024}_{-0.023}$
A_{143}^{tSZ}	7.95	—	$\Omega_m h^2$	0.1404	$0.149^{+0.012}_{-0.011}$	$r_{\text{drag}}/D_V(0.57)$	0.07235	$0.0687^{+0.0046}_{-0.0047}$
$r_{143 \times 217}^{\text{PS}}$	0.898	> 0.734	$\Omega_m h^3$	0.09622	$0.0933^{+0.0038}_{-0.0042}$			
$r_{143 \times 217}^{\text{CIB}}$	0.228	< 0.811	Y_P	0.247808	$0.24761^{+0.00030}_{-0.00032}$			

Best-fit $\chi_{\text{eff}}^2 = 9815.87$; R-1 = 0.02027

χ_{eff}^2 : CMB - lensing: 9.72 lowLike: 2014.42 lowl: -7.81 CamSpec: 7798.85

6.23 base_mnu_planck_lowl_lowLike_lensing_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022262	$0.02219^{+0.00049}_{-0.00049}$	γ^{CIB}	0.531	$0.53^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8311	$1.828^{+0.017}_{-0.018}$
$\Omega_c h^2$	0.11797	$0.1179^{+0.0031}_{-0.0030}$	c_{100}	1.00061	$1.00057^{+0.00078}_{-0.00078}$	$\Omega_\nu h^2$	0.00075	< 0.00282
$100\theta_{\text{MC}}$	1.04153	$1.0415^{+0.0011}_{-0.0011}$	c_{217}	0.99628	$0.9964^{+0.0026}_{-0.0026}$	Age/Gyr	13.781	$13.81^{+0.11}_{-0.11}$
τ	0.0946	$0.092^{+0.026}_{-0.026}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.98	$1090.08^{+0.79}_{-0.73}$
Σm_ν	0.070	< 0.262	A^{KSZ}	1.81	—	r_*	145.03	$145.09^{+0.73}_{-0.74}$
n_s	0.9675	$0.965^{+0.011}_{-0.011}$	β_1^1	0.68	$0.5^{+1.2}_{-1.0}$	$100\theta_*$	1.04167	$1.0417^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.0967	$3.090^{+0.049}_{-0.050}$	Ω_Λ	0.6966	$0.692^{+0.023}_{-0.024}$	z_{drag}	1059.63	$1059.4^{+1.1}_{-1.1}$
A_{100}^{PS}	126	171^{+100}_{-100}	Ω_m	0.3034	$0.308^{+0.024}_{-0.023}$	r_{drag}	147.75	$147.83^{+0.78}_{-0.80}$
A_{143}^{PS}	55.0	52^{+30}_{-30}	σ_8	0.8275	$0.814^{+0.034}_{-0.040}$	k_D	0.13999	$0.1399^{+0.0010}_{-0.0010}$
A_{217}^{PS}	120.5	104^{+30}_{-30}	z_{re}	11.42	$11.2^{+2.2}_{-2.2}$	$100\theta_D$	0.16118	$0.16128^{+0.00064}_{-0.00060}$
A_{143}^{CIB}	0.0	—	H_0	68.17	$67.7^{+1.9}_{-1.9}$	z_{eq}	3351	3349^{+72}_{-67}
A_{217}^{CIB}	23	29^{+10}_{-10}	$10^9 A_s$	2.213	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8227	$0.823^{+0.013}_{-0.014}$
A_{143}^{tSZ}	8.15	—	$\Omega_m h^2$	0.14099	$0.1413^{+0.0032}_{-0.0031}$	$r_{\text{drag}}/D_V(0.57)$	0.07210	$0.0719^{+0.0013}_{-0.0014}$
$r_{143 \times 217}^{\text{PS}}$	0.900	> 0.728	$\Omega_m h^3$	0.09611	$0.0957^{+0.0014}_{-0.0014}$			
$r_{143 \times 217}^{\text{CIB}}$	0.335	< 0.797	Y_P	0.247793	$0.24776^{+0.00021}_{-0.00021}$			

Best-fit $\chi_{\text{eff}}^2 = 9817.12$; R-1 = 0.08741

χ_{eff}^2 : BAO - DR9: 0.61 DR7: 0.62 6DF: 0.04 CMB - lensing: 9.72 lowLike: 2014.41 lowl: -7.66 CamSpec: 7798.67

6.24 base_mnu_planck_lowl_lowLike_lensing_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02247	$0.02232^{+0.00050}_{-0.00051}$	γ^{CIB}	0.537	$0.53^{+0.25}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8228	$1.823^{+0.018}_{-0.018}$
$\Omega_c h^2$	0.11598	$0.1168^{+0.0039}_{-0.0038}$	c_{100}	1.00060	$1.00058^{+0.00075}_{-0.00079}$	$\Omega_\nu h^2$	0.00000	< 0.00224
$100\theta_{\text{MC}}$	1.04190	$1.0417^{+0.0011}_{-0.0012}$	c_{217}	0.99620	$0.9964^{+0.0025}_{-0.0028}$	Age/Gyr	13.710	$13.77^{+0.12}_{-0.10}$
τ	0.1005	$0.095^{+0.023}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1089.54	$1089.81^{+0.88}_{-0.84}$
Σm_ν	0.000	< 0.208	A^{kSZ}	2.22	—	r_*	145.40	$145.30^{+0.97}_{-0.88}$
n_s	0.9728	$0.968^{+0.012}_{-0.013}$	β_1^1	0.62	$0.5^{+1.2}_{-1.0}$	$100\theta_*$	1.04199	$1.0419^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.1039	$3.094^{+0.046}_{-0.046}$	Ω_Λ	0.7153	$0.703^{+0.026}_{-0.029}$	z_{drag}	1059.97	$1059.7^{+1.0}_{-1.1}$
A_{100}^{PS}	116	165^{+100}_{-100}	Ω_m	0.2847	$0.297^{+0.029}_{-0.026}$	r_{drag}	148.05	$148.00^{+0.97}_{-0.88}$
A_{143}^{PS}	50.1	51^{+30}_{-30}	σ_8	0.8379	$0.820^{+0.030}_{-0.036}$	k_D	0.13983	$0.1398^{+0.0010}_{-0.0011}$
A_{217}^{PS}	120.2	104^{+30}_{-30}	z_{re}	11.78	$11.4^{+2.0}_{-2.1}$	$100\theta_D$	0.16101	$0.16118^{+0.00065}_{-0.00061}$
A_{143}^{CIB}	0.0	—	H_0	69.74	$68.7^{+2.1}_{-2.3}$	z_{eq}	3308	3324^{+87}_{-90}
A_{217}^{CIB}	22	28^{+10}_{-10}	$10^9 A_s$	2.229	$2.21^{+0.10}_{-0.10}$	$100\theta_{\text{eq}}$	0.8315	$0.828^{+0.018}_{-0.017}$
A_{143}^{tSZ}	8.50	—	$\Omega_m h^2$	0.13845	$0.1399^{+0.0041}_{-0.0040}$	$r_{\text{drag}}/D_V(0.57)$	0.07320	$0.0725^{+0.0016}_{-0.0017}$
$r_{143 \times 217}^{\text{PS}}$	0.953	> 0.738	$\Omega_m h^3$	0.09655	$0.0960^{+0.0013}_{-0.0013}$			
$r_{143 \times 217}^{\text{CIB}}$	0.195	< 0.818	Y_P	0.247883	$0.24782^{+0.00021}_{-0.00022}$			

Best-fit $\chi_{\text{eff}}^2 = 9819.59$; R-1 = 0.07910

χ_{eff}^2 : CMB - lensing: 9.14 lowLike: 2014.65 lowl: -8.06 CamSpec: 7800.29 Hubble - HST: 2.90

6.25 base_mnu_planck_lowl_lowLike_lensing_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02235	$0.02222^{+0.00052}_{-0.00054}$	γ^{CIB}	0.538	$0.53^{+0.25}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8269	$1.826^{+0.020}_{-0.019}$
$\Omega_c h^2$	0.11673	$0.1176^{+0.0041}_{-0.0040}$	c_{100}	1.00060	$1.00057^{+0.00077}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00340
$100\theta_{\text{MC}}$	1.04170	$1.0416^{+0.0012}_{-0.0012}$	c_{217}	0.99638	$0.9964^{+0.0026}_{-0.0026}$	Age/Gyr	13.732	$13.81^{+0.16}_{-0.14}$
τ	0.0964	$0.094^{+0.024}_{-0.026}$	$\xi^{\text{tSZ-CIB}}$	0.40	—	z_*	1089.75	$1090.01^{+0.95}_{-0.85}$
Σm_ν	0.000	< 0.316	A^{ksZ}	0.8	—	r_*	145.29	$145.15^{+0.96}_{-0.93}$
n_s	0.9712	$0.966^{+0.012}_{-0.013}$	β_1^1	0.58	$0.5^{+1.2}_{-1.1}$	$100\theta_*$	1.04180	$1.0417^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.0980	$3.092^{+0.047}_{-0.047}$	Ω_Λ	0.7103	$0.693^{+0.034}_{-0.040}$	z_{drag}	1059.74	$1059.5^{+1.1}_{-1.1}$
A_{100}^{PS}	154	168^{+100}_{-100}	Ω_m	0.2897	$0.307^{+0.040}_{-0.034}$	r_{drag}	147.98	$147.9^{+1.0}_{-0.94}$
A_{143}^{PS}	64.0	52^{+30}_{-30}	σ_8	0.8381	$0.813^{+0.038}_{-0.047}$	k_D	0.13981	$0.1398^{+0.0011}_{-0.0011}$
A_{217}^{PS}	119.5	105^{+30}_{-30}	z_{re}	11.49	$11.3^{+2.1}_{-2.2}$	$100\theta_D$	0.16112	$0.16125^{+0.00065}_{-0.00060}$
A_{143}^{CIB}	0.0	—	H_0	69.29	$67.9^{+2.7}_{-3.1}$	z_{eq}	3323	3341^{+92}_{-90}
A_{217}^{CIB}	24	29^{+10}_{-10}	$10^9 A_s$	2.215	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8282	$0.825^{+0.018}_{-0.018}$
A_{143}^{tSZ}	4.95	—	$\Omega_m h^2$	0.13908	$0.1410^{+0.0051}_{-0.0046}$	$r_{\text{drag}}/D_V(0.57)$	0.07289	$0.0720^{+0.0019}_{-0.0022}$
$r_{143 \times 217}^{\text{PS}}$	0.925	> 0.733	$\Omega_m h^3$	0.09638	$0.0957^{+0.0016}_{-0.0017}$			
$r_{143 \times 217}^{\text{CIB}}$	0.330	< 0.809	Y_P	0.247833	$0.24778^{+0.00022}_{-0.00023}$			

Best-fit $\chi_{\text{eff}}^2 = 10243.86$; R-1 = 0.05903

χ_{eff}^2 : CMB - lensing: 9.46 lowLike: 2014.35 lowl: -7.99 CamSpec: 7799.65 SN - SNLS: 427.74

6.26 base_mnu_planck_lowl_lowLike_highL_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02199^{+0.00062}_{-0.00064}$	β_1^1	0.39	$0.4^{+1.1}_{-1.1}$	σ_8	0.816	$0.774^{+0.079}_{-0.10}$
$\Omega_c h^2$	0.1188	$0.1205^{+0.0059}_{-0.0055}$	$A_{148}^{\text{PS, ACT}}$	10.41	$10.6^{+1.2}_{-1.2}$	z_{re}	11.60	$11.4^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04139	$1.0411^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.0	77^{+9}_{-9}	H_0	67.2	$64.7^{+5.4}_{-6.6}$
τ	0.0960	$0.092^{+0.027}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.44	$7.76^{+3.0}_{-2.9}$	$10^9 A_s$	2.217	$2.21^{+0.11}_{-0.11}$
Σm_ν	0.129	< 0.845	$A_{150}^{\text{PS, SPT}}$	9.92	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1423	$0.146^{+0.010}_{-0.0086}$
n_s	0.9616	$0.956^{+0.016}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	73.0	74^{+9}_{-9}	$\Omega_m h^3$	0.09570	$0.0944^{+0.0030}_{-0.0036}$
$\ln(10^{10} A_s)$	3.0988	$3.094^{+0.050}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.807	> 0.683	Y_P	0.247754	$0.24768^{+0.00027}_{-0.00028}$
A_{100}^{PS}	203	216^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.556	$0.58^{+0.24}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.835^{+0.024}_{-0.023}$
A_{143}^{PS}	72.6	74^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9070	$0.935^{+0.049}_{-0.045}$	$\Omega_\nu h^2$	0.00138	< 0.00909
A_{217}^{PS}	59.6	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.44^{+0.36}_{-0.38}$	Age/Gyr	13.828	$13.96^{+0.34}_{-0.28}$
A_{143}^{CIB}	3.35	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.84^{+0.39}_{-0.39}$	z_*	1090.17	$1090.6^{+1.5}_{-1.3}$
A_{217}^{CIB}	53.0	50^{+10}_{-10}	y_{148}^{ACTs}	0.9917	$0.992^{+0.015}_{-0.014}$	r_*	144.88	$144.5^{+1.2}_{-1.5}$
A_{143}^{tSZ}	4.81	< 4.93	y_{217}^{ACTs}	1.0031	$1.005^{+0.027}_{-0.027}$	$100\theta_*$	1.04157	$1.0414^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.822	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9879	$0.988^{+0.014}_{-0.014}$	z_{drag}	1059.47	$1059.2^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9615	$0.964^{+0.021}_{-0.020}$	r_{drag}	147.62	$147.3^{+1.2}_{-1.4}$
γ^{CIB}	0.664	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9851	$0.983^{+0.040}_{-0.037}$	k_D	0.14006	$0.1403^{+0.0014}_{-0.0013}$
c_{100}	1.00059	$1.00059^{+0.00076}_{-0.00077}$	y_{150}^{SPT}	0.9858	$0.987^{+0.019}_{-0.019}$	$100\theta_D$	0.16126	$0.16136^{+0.00065}_{-0.00064}$
c_{217}	0.99731	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0177	$1.024^{+0.047}_{-0.044}$	z_{eq}	3368	3405^{+130}_{-120}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.843	Ω_Λ	0.685	$0.647^{+0.079}_{-0.10}$	$100\theta_{\text{eq}}$	0.8193	$0.813^{+0.022}_{-0.024}$
A^{kSZ}	0.90	$5.05^{+3.7}_{-4.3}$	Ω_m	0.315	$0.353^{+0.10}_{-0.079}$	$r_{\text{drag}}/D_V(0.57)$	0.07147	$0.0698^{+0.0036}_{-0.0044}$

Best-fit $\chi_{\text{eff}}^2 = 10518.04$; R-1 = 0.01727

χ_{eff}^2 : CMB - lowLike: 2014.70 lensing: 9.47 lowl: -6.73 CamSpec: 7808.98 highL: 691.52

6.27 base_mnu_planck_lowl_lowLike_highL_lensing_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022203	$0.02220^{+0.00049}_{-0.00046}$	β_1^1	0.36	$0.4^{+1.0}_{-1.1}$	σ_8	0.8364	$0.817^{+0.034}_{-0.037}$
$\Omega_c h^2$	0.11837	$0.1182^{+0.0031}_{-0.0030}$	$A_{148}^{\text{PS, ACT}}$	10.47	$10.7^{+1.1}_{-1.1}$	z_{re}	11.27	$11.3^{+2.1}_{-2.0}$
$100\theta_{\text{MC}}$	1.04148	$1.0415^{+0.0011}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	68.42	$67.7^{+1.8}_{-1.9}$
τ	0.0927	$0.093^{+0.025}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.69	$7.92^{+2.9}_{-3.0}$	$10^9 A_s$	2.200	$2.20^{+0.11}_{-0.097}$
Σm_ν	0.016	< 0.247	$A_{150}^{\text{PS, SPT}}$	10.02	$10.22^{+0.98}_{-0.94}$	$\Omega_m h^2$	0.14075	$0.1415^{+0.0031}_{-0.0032}$
n_s	0.9619	$0.963^{+0.011}_{-0.010}$	$A_{220}^{\text{PS, SPT}}$	73.6	75^{+9}_{-9}	$\Omega_m h^3$	0.09630	$0.0958^{+0.0014}_{-0.0014}$
$\ln(10^{10} A_s)$	3.0912	$3.090^{+0.048}_{-0.045}$	$r_{95 \times 150}^{\text{PS}}$	0.786	> 0.681	Y_P	0.247768	$0.24777^{+0.00021}_{-0.00020}$
A_{100}^{PS}	206	213^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.533	$0.58^{+0.24}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8279	$1.827^{+0.017}_{-0.017}$
A_{143}^{PS}	72.9	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9094	$0.934^{+0.050}_{-0.046}$	$\Omega_\nu h^2$	0.00017	< 0.00266
A_{217}^{PS}	60.1	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.424	$0.44^{+0.36}_{-0.40}$	Age/Gyr	13.765	$13.81^{+0.11}_{-0.10}$
A_{143}^{CIB}	3.07	$3.24^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.841	$0.84^{+0.38}_{-0.38}$	z_*	1090.08	$1090.09^{+0.74}_{-0.72}$
A_{217}^{CIB}	51.9	50^{+10}_{-9}	y_{148}^{ACTs}	0.9917	$0.993^{+0.014}_{-0.014}$	r_*	144.98	$145.02^{+0.81}_{-0.74}$
A_{143}^{tSZ}	4.24	< 5.00	y_{217}^{ACTs}	1.0039	$1.007^{+0.027}_{-0.026}$	$100\theta_*$	1.04161	$1.0417^{+0.0011}_{-0.0011}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9880	$0.989^{+0.015}_{-0.013}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9623	$0.965^{+0.021}_{-0.019}$	r_{drag}	147.71	$147.75^{+0.87}_{-0.84}$
γ^{CIB}	0.654	$0.65^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9848	$0.985^{+0.041}_{-0.038}$	k_D	0.13998	$0.1399^{+0.0010}_{-0.0011}$
c_{100}	1.00059	$1.00060^{+0.00077}_{-0.00075}$	y_{150}^{SPT}	0.9861	$0.989^{+0.019}_{-0.018}$	$100\theta_D$	0.16124	$0.16126^{+0.00060}_{-0.00060}$
c_{217}	0.99727	$0.9974^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0183	$1.026^{+0.048}_{-0.045}$	z_{eq}	3359	3355^{+72}_{-70}
$\xi^{\text{tSZ-CIB}}$	0.011	< 0.799	Ω_Λ	0.6993	$0.691^{+0.023}_{-0.023}$	$100\theta_{\text{eq}}$	0.8210	$0.822^{+0.014}_{-0.013}$
A^{kSZ}	1.79	$4.79^{+3.7}_{-4.5}$	Ω_m	0.3007	$0.309^{+0.023}_{-0.023}$	$r_{\text{drag}}/D_V(0.57)$	0.07224	$0.0718^{+0.0012}_{-0.0013}$

Best-fit $\chi_{\text{eff}}^2 = 10518.64$; R-1 = 0.05291

χ_{eff}^2 : BAO - DR7: 0.42 DR9: 0.82 6DF: 0.06 CMB - lowLike: 2014.27 lensing: 9.82 lowl: -6.67 CamSpec: 7808.80 highL: 691.01

6.28 base_mnu_planck_lowl_lowLike_highL_lensing_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02241	$0.02234^{+0.00058}_{-0.00051}$	β_1^1	0.40	$0.3^{+1.0}_{-1.1}$	σ_8	0.8365	$0.821^{+0.029}_{-0.035}$
$\Omega_c h^2$	0.11645	$0.1169^{+0.0040}_{-0.0041}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.7^{+1.2}_{-1.2}$	z_{re}	11.68	$11.4^{+2.1}_{-2.3}$
$100\theta_{\text{MC}}$	1.04186	$1.0418^{+0.0012}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	75.9	77^{+9}_{-9}	H_0	69.49	$68.7^{+2.5}_{-2.2}$
τ	0.0989	$0.096^{+0.026}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.47	$7.97^{+3.1}_{-2.9}$	$10^9 A_s$	2.219	$2.21^{+0.11}_{-0.11}$
Σm_ν	0.000	< 0.196	$A_{150}^{\text{PS, SPT}}$	9.98	$10.26^{+0.97}_{-0.96}$	$\Omega_m h^2$	0.13886	$0.1399^{+0.0043}_{-0.0041}$
n_s	0.9675	$0.966^{+0.013}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	72.9	75^{+9}_{-9}	$\Omega_m h^3$	0.09649	$0.0961^{+0.0013}_{-0.0014}$
$\ln(10^{10} A_s)$	3.100	$3.094^{+0.051}_{-0.051}$	$r_{95 \times 150}^{\text{PS}}$	0.810	> 0.677	Y_P	0.247855	$0.24783^{+0.00024}_{-0.00022}$
A_{100}^{PS}	204	210^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.560	$0.58^{+0.24}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8207	$1.822^{+0.021}_{-0.018}$
A_{143}^{PS}	70.2	71^{+20}_{-10}	$r_{150 \times 220}^{\text{PS}}$	0.9080	$0.934^{+0.049}_{-0.045}$	$\Omega_\nu h^2$	0.00000	< 0.00210
A_{217}^{PS}	57.1	57^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.421	$0.43^{+0.36}_{-0.36}$	Age/Gyr	13.721	$13.76^{+0.11}_{-0.12}$
A_{143}^{CIB}	3.36	$3.26^{+1.7}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.856	$0.83^{+0.38}_{-0.40}$	z_*	1089.66	$1089.79^{+0.86}_{-1.0}$
A_{217}^{CIB}	53.7	50^{+10}_{-10}	y_{148}^{ACTs}	0.9930	$0.994^{+0.015}_{-0.015}$	r_*	145.32	$145.27^{+0.95}_{-0.91}$
A_{143}^{tSZ}	4.83	< 5.00	y_{217}^{ACTs}	1.0049	$1.009^{+0.026}_{-0.027}$	$100\theta_*$	1.04194	$1.0419^{+0.0011}_{-0.0011}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9893	$0.990^{+0.015}_{-0.013}$	z_{drag}	1059.82	$1059.7^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9634	$0.966^{+0.020}_{-0.019}$	r_{drag}	148.00	$147.96^{+0.96}_{-0.99}$
γ^{CIB}	0.679	$0.65^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9880	$0.987^{+0.043}_{-0.041}$	k_D	0.13984	$0.1398^{+0.0011}_{-0.0012}$
c_{100}	1.00060	$1.00061^{+0.00077}_{-0.00075}$	y_{150}^{SPT}	0.9880	$0.990^{+0.018}_{-0.018}$	$100\theta_D$	0.16108	$0.16115^{+0.00062}_{-0.00063}$
c_{217}	0.99731	$0.9974^{+0.0026}_{-0.0028}$	y_{220}^{SPT}	1.0200	$1.028^{+0.048}_{-0.047}$	z_{eq}	3318	3326^{+90}_{-87}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.765	Ω_Λ	0.7124	$0.703^{+0.030}_{-0.028}$	$100\theta_{\text{eq}}$	0.8294	$0.828^{+0.019}_{-0.017}$
A^{kSZ}	0.84	$4.72^{+3.6}_{-4.2}$	Ω_m	0.2876	$0.297^{+0.028}_{-0.030}$	$r_{\text{drag}}/D_V(0.57)$	0.07302	$0.0725^{+0.0017}_{-0.0018}$

Best-fit $\chi_{\text{eff}}^2 = 10521.47$; R-1 = 0.14490

χ_{eff}^2 : CMB - lowLike: 2014.57 lensing: 9.09 lowl: -7.39 CamSpec: 7811.04 highL: 690.80 Hubble - HST: 3.26

6.29 base_mnu_planck_lowl_lowLike_highL_lensing_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02231	$0.02224^{+0.00058}_{-0.00054}$	β_1	0.34	$0.4^{+1.0}_{-1.1}$	σ_8	0.8354	$0.816^{+0.037}_{-0.044}$
$\Omega_c h^2$	0.11701	$0.1177^{+0.0041}_{-0.0042}$	$A_{148}^{\text{PS, ACT}}$	10.46	$10.7^{+1.1}_{-1.1}$	z_{re}	11.41	$11.4^{+2.1}_{-2.2}$
$100\theta_{\text{MC}}$	1.04169	$1.0416^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	69.15	$68.0^{+2.8}_{-3.0}$
τ	0.0952	$0.094^{+0.026}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.70	$7.94^{+3.0}_{-2.9}$	$10^9 A_s$	2.204	$2.20^{+0.11}_{-0.11}$
Σm_ν	0.000	< 0.287	$A_{150}^{\text{PS, SPT}}$	10.02	$10.24^{+0.99}_{-0.95}$	$\Omega_m h^2$	0.13932	$0.1410^{+0.0049}_{-0.0047}$
n_s	0.9654	$0.964^{+0.012}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	73.6	75^{+9}_{-9}	$\Omega_m h^3$	0.09634	$0.0959^{+0.0016}_{-0.0017}$
$\ln(10^{10} A_s)$	3.0930	$3.092^{+0.050}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.784	> 0.679	Y_P	0.247813	$0.24778^{+0.00025}_{-0.00022}$
A_{100}^{PS}	204	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.530	$0.58^{+0.24}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8223	$1.825^{+0.020}_{-0.018}$
A_{143}^{PS}	71.8	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9089	$0.934^{+0.050}_{-0.045}$	$\Omega_\nu h^2$	0.00000	< 0.00308
A_{217}^{PS}	59.2	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.424	$0.43^{+0.36}_{-0.39}$	Age/Gyr	13.738	$13.80^{+0.15}_{-0.14}$
A_{143}^{CIB}	3.08	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.841	$0.84^{+0.38}_{-0.39}$	z_*	1089.83	$1089.99^{+0.91}_{-1.0}$
A_{217}^{CIB}	52.1	50^{+10}_{-10}	y_{148}^{ACTs}	0.9922	$0.993^{+0.014}_{-0.015}$	r_*	145.25	$145.12^{+0.96}_{-0.94}$
A_{143}^{tSZ}	4.33	< 5.00	y_{217}^{ACTs}	1.0044	$1.008^{+0.027}_{-0.026}$	$100\theta_*$	1.04180	$1.0418^{+0.0011}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.813	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9885	$0.989^{+0.015}_{-0.014}$	z_{drag}	1059.67	$1059.5^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9628	$0.965^{+0.020}_{-0.019}$	r_{drag}	147.96	$147.84^{+0.98}_{-0.94}$
γ^{CIB}	0.656	$0.65^{+0.15}_{-0.17}$	y_{95}^{SPT}	0.9858	$0.986^{+0.042}_{-0.039}$	k_D	0.13980	$0.1399^{+0.0011}_{-0.0012}$
c_{100}	1.00059	$1.00061^{+0.00077}_{-0.00075}$	y_{150}^{SPT}	0.9870	$0.989^{+0.019}_{-0.018}$	$100\theta_D$	0.16117	$0.16123^{+0.00062}_{-0.00062}$
c_{217}	0.99726	$0.9974^{+0.0026}_{-0.0028}$	y_{220}^{SPT}	1.0189	$1.027^{+0.047}_{-0.044}$	z_{eq}	3329	3344^{+92}_{-93}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.798	Ω_Λ	0.7087	$0.694^{+0.035}_{-0.038}$	$100\theta_{\text{eq}}$	0.8270	$0.824^{+0.019}_{-0.018}$
A^{kSZ}	1.66	$4.78^{+3.7}_{-4.5}$	Ω_m	0.2913	$0.306^{+0.038}_{-0.035}$	$r_{\text{drag}}/D_V(0.57)$	0.07279	$0.0720^{+0.0020}_{-0.0021}$

Best-fit $\chi_{\text{eff}}^2 = 10945.37$; R-1 = 0.06972

χ_{eff}^2 : CMB - lowLike: 2014.31 lensing: 9.22 lowl: -7.22 CamSpec: 7810.12 highL: 690.98 SN - SNLS: 427.86

6.30 base_mnu_planck_tauprior

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02203	$0.02168^{+0.00069}_{-0.00070}$	γ^{CIB}	0.559	$0.54^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8465	$1.850^{+0.029}_{-0.028}$
$\Omega_c h^2$	0.1211	$0.1237^{+0.0065}_{-0.0062}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$\Omega_\nu h^2$	0.0000	< 0.0141
$100\theta_{\text{MC}}$	1.04116	$1.0406^{+0.0014}_{-0.0014}$	c_{217}	0.99646	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.800	$14.09^{+0.44}_{-0.37}$
τ	0.0908	$0.094^{+0.025}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.26	—	z_*	1090.55	$1091.4^{+1.7}_{-1.6}$
Σm_ν	0.00	< 1.31	A^{kSZ}	0.8	—	r_*	144.39	$143.8^{+1.6}_{-1.6}$
n_s	0.9591	$0.947^{+0.021}_{-0.022}$	β_1^1	0.72	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04130	$1.0410^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.0975	$3.106^{+0.049}_{-0.049}$	Ω_Λ	0.683	$0.60^{+0.12}_{-0.15}$	z_{drag}	1059.28	$1058.8^{+1.2}_{-1.2}$
A_{100}^{PS}	164	185^{+100}_{-100}	Ω_m	0.317	$0.40^{+0.15}_{-0.12}$	r_{drag}	147.17	$146.7^{+1.5}_{-1.6}$
A_{143}^{PS}	69.3	57^{+30}_{-30}	σ_8	0.849	$0.75^{+0.12}_{-0.15}$	k_D	0.14041	$0.1408^{+0.0016}_{-0.0015}$
A_{217}^{PS}	121.3	105^{+30}_{-40}	z_{re}	11.23	$11.8^{+2.2}_{-2.3}$	$100\theta_D$	0.16135	$0.16158^{+0.00070}_{-0.00069}$
A_{143}^{CIB}	0.0	—	H_0	67.3	62^{+7}_{-8}	z_{eq}	3421	3474^{+140}_{-140}
A_{217}^{CIB}	25	31^{+20}_{-20}	$10^9 A_s$	2.214	$2.23^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8091	$0.800^{+0.025}_{-0.025}$
A_{143}^{tSZ}	5.13	—	$\Omega_m h^2$	0.1432	$0.151^{+0.013}_{-0.011}$	$r_{\text{drag}}/D_V(0.57)$	0.07134	$0.0680^{+0.0045}_{-0.0052}$
$r_{143 \times 217}^{\text{PS}}$	0.915	> 0.725	$\Omega_m h^3$	0.09632	$0.0932^{+0.0042}_{-0.0051}$			
$r_{143 \times 217}^{\text{CIB}}$	0.625	< 0.829	Y_P	0.247693	$0.24754^{+0.00030}_{-0.00032}$			

Best-fit $\chi_{\text{eff}}^2 = 7797.36$; R-1 = 0.00570

χ_{eff}^2 : CMB - CamSpec: 7796.85

6.31 base_mnu_planck_tauprior_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02150	$0.02150^{+0.00077}_{-0.00066}$	γ^{CIB}	0.539	$0.54^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8522	$1.852^{+0.025}_{-0.026}$
$\Omega_c h^2$	0.1250	$0.1249^{+0.0058}_{-0.0066}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00079}$	$\Omega_\nu h^2$	0.0085	$0.0097^{+0.0077}_{-0.0097}$
$100\theta_{\text{MC}}$	1.04022	$1.0403^{+0.0015}_{-0.0014}$	c_{217}	0.99639	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	14.268	$14.30^{+0.39}_{-0.45}$
τ	0.0917	$0.096^{+0.024}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.85	$1091.9^{+1.7}_{-1.8}$
Σm_ν	0.79	$0.91^{+0.72}_{-0.90}$	A^{kSZ}	10.0	—	r_*	143.46	$143.3^{+1.7}_{-1.7}$
n_s	0.9416	$0.941^{+0.022}_{-0.022}$	β_1^1	0.71	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04072	$1.0407^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.1025	$3.112^{+0.045}_{-0.047}$	Ω_Λ	0.552	$0.53^{+0.16}_{-0.16}$	z_{drag}	1058.52	$1058.6^{+1.3}_{-1.2}$
A_{100}^{PS}	155	190^{+100}_{-100}	Ω_m	0.448	$0.47^{+0.16}_{-0.16}$	r_{drag}	146.39	$146.3^{+1.6}_{-1.6}$
A_{143}^{PS}	44	58^{+30}_{-30}	σ_8	0.693	$0.69^{+0.13}_{-0.11}$	k_D	0.14099	$0.1412^{+0.0017}_{-0.0017}$
A_{217}^{PS}	104.8	105^{+40}_{-40}	z_{re}	11.78	$12.2^{+2.1}_{-2.3}$	$100\theta_D$	0.16165	$0.16157^{+0.00070}_{-0.00070}$
A_{143}^{CIB}	5.38	—	H_0	58.9	58^{+9}_{-7}	z_{eq}	3501	3499^{+130}_{-140}
A_{217}^{CIB}	28	32^{+20}_{-20}	$10^9 A_s$	2.225	$2.25^{+0.10}_{-0.10}$	$100\theta_{\text{eq}}$	0.7949	$0.796^{+0.025}_{-0.023}$
A_{143}^{tSZ}	6.61	—	$\Omega_m h^2$	0.1550	$0.156^{+0.012}_{-0.014}$	$r_{\text{drag}}/D_V(0.57)$	0.0660	$0.0657^{+0.0054}_{-0.0046}$
$r_{143 \times 217}^{\text{PS}}$	0.879	> 0.719	$\Omega_m h^3$	0.09125	$0.0909^{+0.0050}_{-0.0044}$			
$r_{143 \times 217}^{\text{CIB}}$	0.346	$0.49^{+0.36}_{-0.47}$	Y_P	0.247461	$0.24746^{+0.00034}_{-0.00030}$			

Best-fit $\chi_{\text{eff}}^2 = 7805.96$; R-1 = 0.00952

χ_{eff}^2 : CMB - lensing: 6.50 CamSpec: 7798.79

6.32 base_mnu_planck_tau prior_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02194	$0.02184^{+0.00058}_{-0.00061}$	β_1^1	0.51	$0.5^{+1.1}_{-1.1}$	σ_8	0.851	$0.794^{+0.087}_{-0.12}$
$\Omega_c h^2$	0.1225	$0.1230^{+0.0060}_{-0.0059}$	$A_{148}^{\text{PS, ACT}}$	10.27	$10.5^{+1.2}_{-1.1}$	z_{re}	11.51	$11.7^{+2.1}_{-2.2}$
$100\theta_{\text{MC}}$	1.04102	$1.0408^{+0.0013}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	75.6	77^{+9}_{-9}	H_0	66.6	$64.0^{+5.2}_{-6.7}$
τ	0.0932	$0.095^{+0.024}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.27	$7.53^{+3.0}_{-2.8}$	$10^9 A_s$	2.226	$2.23^{+0.11}_{-0.11}$
Σm_ν	0.021	< 0.890	$A_{150}^{\text{PS, SPT}}$	9.74	$9.97^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1446	$0.148^{+0.010}_{-0.0088}$
n_s	0.9505	$0.948^{+0.016}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	72.6	74^{+9}_{-9}	$\Omega_m h^3$	0.09627	$0.0946^{+0.0029}_{-0.0041}$
$\ln(10^{10} A_s)$	3.1028	$3.106^{+0.048}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.798	> 0.682	Y_{P}	0.247654	$0.24761^{+0.00025}_{-0.00027}$
A_{100}^{PS}	211	222^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.551	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8473	$1.847^{+0.028}_{-0.027}$
A_{143}^{PS}	75.6	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9094	$0.938^{+0.047}_{-0.045}$	$\Omega_\nu h^2$	0.00023	< 0.00957
A_{217}^{PS}	62.7	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.435	$0.44^{+0.36}_{-0.39}$	Age/Gyr	13.825	$13.97^{+0.36}_{-0.26}$
A_{143}^{CIB}	3.25	$3.22^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.847	$0.85^{+0.39}_{-0.39}$	z_*	1090.79	$1091.0^{+1.4}_{-1.3}$
A_{217}^{CIB}	52.4	49^{+10}_{-9}	y_{148}^{ACTs}	0.9900	$0.990^{+0.015}_{-0.014}$	r_*	144.13	$144.0^{+1.4}_{-1.4}$
A_{143}^{tSZ}	4.66	< 4.90	y_{217}^{ACTs}	1.0006	$1.003^{+0.027}_{-0.026}$	$100\theta_*$	1.04117	$1.0411^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.828	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9861	$0.987^{+0.014}_{-0.014}$	z_{drag}	1059.17	$1059.0^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9592	$0.962^{+0.021}_{-0.020}$	r_{drag}	146.93	$146.8^{+1.3}_{-1.4}$
γ^{CIB}	0.657	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9810	$0.980^{+0.039}_{-0.037}$	k_{D}	0.14059	$0.1407^{+0.0014}_{-0.0014}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9822	$0.984^{+0.019}_{-0.019}$	$100\theta_{\text{D}}$	0.16143	$0.16148^{+0.00065}_{-0.00064}$
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0147	$1.022^{+0.047}_{-0.044}$	z_{eq}	3450	3461^{+140}_{-130}
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.674	$0.635^{+0.081}_{-0.11}$	$100\theta_{\text{eq}}$	0.8037	$0.802^{+0.025}_{-0.024}$
A^{kSZ}	1.63	$5.69^{+4.1}_{-4.2}$	Ω_m	0.326	$0.365^{+0.11}_{-0.081}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07084	$0.0693^{+0.0035}_{-0.0043}$

Best-fit $\chi_{\text{eff}}^2 = 8499.46$; R-1 = 0.00622

χ_{eff}^2 : CMB - CamSpec: 7806.58 highL: 692.69

6.33 base_mnu_planck_tauprior_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02163	$0.02173^{+0.00067}_{-0.00065}$	β_1^1	0.57	$0.5^{+1.1}_{-1.1}$	σ_8	0.715	$0.73^{+0.12}_{-0.12}$
$\Omega_c h^2$	0.1246	$0.1234^{+0.0059}_{-0.0063}$	$A_{148}^{\text{PS, ACT}}$	10.54	$10.5^{+1.2}_{-1.1}$	z_{re}	11.66	$12.0^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04035	$1.0406^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.7	$76.6^{+8.4}_{-9.1}$	H_0	60.1	61^{+8}_{-8}
τ	0.0914	$0.097^{+0.025}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.36	$7.55^{+2.9}_{-2.8}$	$10^9 A_s$	2.224	$2.24^{+0.11}_{-0.11}$
Σm_ν	0.66	< 1.34	$A_{150}^{\text{PS, SPT}}$	9.97	$10.0^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1534	$0.152^{+0.013}_{-0.012}$
n_s	0.9435	$0.945^{+0.020}_{-0.020}$	$A_{220}^{\text{PS, SPT}}$	73.8	74^{+9}_{-9}	$\Omega_m h^3$	0.09214	$0.0925^{+0.0043}_{-0.0045}$
$\ln(10^{10} A_s)$	3.1017	$3.109^{+0.049}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.809	> 0.688	Y_P	0.247520	$0.24756^{+0.00029}_{-0.00029}$
A_{100}^{PS}	223	224^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.581	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8519	$1.847^{+0.025}_{-0.026}$
A_{143}^{PS}	79.5	78^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9212	$0.937^{+0.049}_{-0.045}$	$\Omega_\nu h^2$	0.0071	< 0.0145
A_{217}^{PS}	65.5	64^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.43^{+0.36}_{-0.39}$	Age/Gyr	14.194	$14.15^{+0.40}_{-0.40}$
A_{143}^{CIB}	3.04	$3.21^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.847	$0.85^{+0.39}_{-0.39}$	z_*	1091.57	$1091.4^{+1.7}_{-1.6}$
A_{217}^{CIB}	49.6	49^{+10}_{-9}	y_{148}^{ACTs}	0.9888	$0.990^{+0.014}_{-0.014}$	r_*	143.56	$143.8^{+1.6}_{-1.6}$
A_{143}^{tSZ}	3.19	< 4.76	y_{217}^{ACTs}	1.0011	$1.003^{+0.026}_{-0.026}$	$100\theta_*$	1.04080	$1.0410^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.824	$0.83^{+0.13}_{-0.13}$	y_{148}^{ACTe}	0.9849	$0.986^{+0.014}_{-0.014}$	z_{drag}	1058.75	$1058.9^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9597	$0.962^{+0.021}_{-0.021}$	r_{drag}	146.45	$146.6^{+1.5}_{-1.5}$
γ^{CIB}	0.624	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9770	$0.979^{+0.040}_{-0.039}$	k_D	0.14099	$0.1409^{+0.0017}_{-0.0015}$
c_{100}	1.00059	$1.00060^{+0.00082}_{-0.00080}$	y_{150}^{SPT}	0.9805	$0.983^{+0.020}_{-0.019}$	$100\theta_D$	0.16154	$0.16145^{+0.00064}_{-0.00064}$
c_{217}	0.99746	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0156	$1.020^{+0.049}_{-0.043}$	z_{eq}	3495	3469^{+130}_{-140}
$\xi^{\text{tSZ-CIB}}$	0.18	—	Ω_Λ	0.575	$0.58^{+0.13}_{-0.15}$	$100\theta_{\text{eq}}$	0.7960	$0.801^{+0.025}_{-0.024}$
A^{kSZ}	4.29	$5.50^{+4.0}_{-4.4}$	Ω_m	0.425	$0.42^{+0.15}_{-0.13}$	$r_{\text{drag}}/D_V(0.57)$	0.06673	$0.0674^{+0.0048}_{-0.0048}$

Best-fit $\chi_{\text{eff}}^2 = 8509.31$; R-1 = 0.03040

χ_{eff}^2 : CMB - lensing: 6.97 CamSpec: 7808.10 highL: 694.01

7 mnu+Alens

7.1 base_mnu_Alens_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02248	$0.02228^{+0.00077}_{-0.00075}$	$r_{143 \times 217}^{\text{CIB}}$	0.485	< 0.783	Y_P	0.247888	$0.24780^{+0.00032}_{-0.00032}$
$\Omega_c h^2$	0.1171	$0.1176^{+0.0062}_{-0.0060}$	γ^{CIB}	0.539	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8292	$1.824^{+0.027}_{-0.026}$
$100\theta_{\text{MC}}$	1.04181	$1.0414^{+0.0014}_{-0.0015}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00078}$	$\Omega_\nu h^2$	0.0002	< 0.0126
τ	0.0949	$0.087^{+0.027}_{-0.024}$	c_{217}	0.99644	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.722	$14.01^{+0.38}_{-0.36}$
Σm_ν	0.02	< 1.18	$\xi^{\text{tSZ-CIB}}$	0.29	—	z_*	1089.62	$1090.1^{+1.6}_{-1.5}$
A_L	1.197	$1.30^{+0.28}_{-0.25}$	A^{ksZ}	0.0	—	r_*	145.10	$144.9^{+1.3}_{-1.4}$
n_s	0.9713	$0.965^{+0.019}_{-0.019}$	β_1^1	0.56	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04190	$1.0418^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.096	$3.077^{+0.051}_{-0.048}$	Ω_Λ	0.708	$0.642^{+0.095}_{-0.11}$	z_{drag}	1060.05	$1059.8^{+1.4}_{-1.4}$
A_{100}^{PS}	143	158^{+100}_{-100}	Ω_m	0.292	$0.358^{+0.11}_{-0.095}$	r_{drag}	147.74	$147.6^{+1.3}_{-1.3}$
A_{143}^{PS}	60.1	51^{+30}_{-20}	σ_8	0.835	$0.72^{+0.12}_{-0.12}$	k_D	0.14016	$0.1403^{+0.0014}_{-0.0013}$
A_{217}^{PS}	118.9	107^{+30}_{-30}	z_{re}	11.34	$10.8^{+2.2}_{-2.2}$	$100\theta_D$	0.16095	$0.16100^{+0.00079}_{-0.00077}$
A_{143}^{CIB}	0.0	—	H_0	69.2	$64.2^{+6.7}_{-6.9}$	z_{eq}	3335	3344^{+130}_{-130}
A_{217}^{CIB}	24	27^{+20}_{-10}	$10^9 A_s$	2.212	$2.17^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8265	$0.826^{+0.027}_{-0.026}$
A_{143}^{tSZ}	5.68	—	$\Omega_m h^2$	0.1398	$0.146^{+0.010}_{-0.0099}$	$r_{\text{drag}}/D_V(0.57)$	0.07276	$0.0696^{+0.0042}_{-0.0045}$
$r_{143 \times 217}^{\text{PS}}$	0.918	> 0.741	$\Omega_m h^3$	0.09673	$0.0935^{+0.0039}_{-0.0041}$			

Best-fit $\chi_{\text{eff}}^2 = 9801.00$; R-1 = 0.00447

χ_{eff}^2 : CMB - lowLike: 2014.26 lowl: -8.07 CamSpec: 7794.15

7.2 base_mnu_Alens_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02203	$0.02202^{+0.00066}_{-0.00066}$	$r_{143 \times 217}^{\text{CIB}}$	0.532	< 0.812	Y_P	0.247694	$0.24769^{+0.00028}_{-0.00029}$
$\Omega_c h^2$	0.1186	$0.1184^{+0.0061}_{-0.0056}$	γ^{CIB}	0.516	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8244	$1.823^{+0.027}_{-0.026}$
$100\theta_{\text{MC}}$	1.04109	$1.0411^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00059^{+0.00080}_{-0.00082}$	$\Omega_\nu h^2$	0.0093	$0.0093^{+0.0069}_{-0.0070}$
τ	0.0865	$0.085^{+0.026}_{-0.024}$	c_{217}	0.99627	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	14.204	$14.20^{+0.32}_{-0.36}$
Σm_ν	0.86	$0.87^{+0.64}_{-0.65}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.60	$1090.6^{+1.5}_{-1.4}$
A_L	1.186	$1.19^{+0.17}_{-0.16}$	A^{kSZ}	0.0	—	r_*	144.64	$144.7^{+1.4}_{-1.4}$
n_s	0.9599	$0.959^{+0.019}_{-0.019}$	β_1^1	0.52	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04155	$1.0415^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.0769	$3.074^{+0.051}_{-0.048}$	Ω_Λ	0.597	$0.60^{+0.10}_{-0.11}$	z_{drag}	1059.36	$1059.3^{+1.2}_{-1.2}$
A_{100}^{PS}	141	167^{+100}_{-100}	Ω_m	0.403	$0.40^{+0.11}_{-0.10}$	r_{drag}	147.42	$147.4^{+1.3}_{-1.3}$
A_{143}^{PS}	47.9	53^{+30}_{-30}	σ_8	0.656	$0.66^{+0.12}_{-0.10}$	k_D	0.14039	$0.1404^{+0.0014}_{-0.0013}$
A_{217}^{PS}	112.3	105^{+30}_{-40}	z_{re}	10.98	$10.9^{+2.2}_{-2.3}$	$100\theta_D$	0.16113	$0.16114^{+0.00072}_{-0.00068}$
A_{143}^{CIB}	6.22	—	H_0	61.0	$61.1^{+6.5}_{-5.9}$	z_{eq}	3359	3356^{+130}_{-130}
A_{217}^{CIB}	29.8	30^{+20}_{-10}	$10^9 A_s$	2.169	$2.16^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8222	$0.823^{+0.025}_{-0.025}$
A_{143}^{tSZ}	9.38	—	$\Omega_m h^2$	0.1498	$0.1497^{+0.0093}_{-0.0097}$	$r_{\text{drag}}/D_V(0.57)$	0.06752	$0.0677^{+0.0042}_{-0.0038}$
$r_{143 \times 217}^{\text{PS}}$	0.887	> 0.727	$\Omega_m h^3$	0.09138	$0.0914^{+0.0039}_{-0.0035}$			

Best-fit $\chi_{\text{eff}}^2 = 9810.53$; R-1 = 0.03078

χ_{eff}^2 : CMB - lowLike: 2015.24 lensing: 5.67 lowl: -8.25 CamSpec: 7797.03

7.3 base_mnu_Alens_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02249	$0.02251^{+0.00062}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.446	< 0.774	Y_P	0.247891	$0.24790^{+0.00026}_{-0.00025}$
$\Omega_c h^2$	0.11719	$0.1160^{+0.0045}_{-0.0046}$	γ^{CIB}	0.547	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.820^{+0.022}_{-0.024}$
$100\theta_{\text{MC}}$	1.04173	$1.0418^{+0.0012}_{-0.0012}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00079}$	$\Omega_\nu h^2$	0.00114	< 0.00518
τ	0.0957	$0.088^{+0.026}_{-0.026}$	c_{217}	0.99631	$0.9963^{+0.0026}_{-0.0027}$	Age/Gyr	13.767	$13.82^{+0.14}_{-0.13}$
Σm_ν	0.106	< 0.481	$\xi^{\text{tSZ-CIB}}$	0.35	—	z_*	1089.62	$1089.53^{+0.98}_{-1.0}$
A_L	1.222	$1.28^{+0.28}_{-0.26}$	A^{kSZ}	0.0	—	r_*	145.06	$145.34^{+0.96}_{-0.94}$
n_s	0.9713	$0.971^{+0.014}_{-0.014}$	β_1^1	0.61	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04188	$1.0420^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.098	$3.077^{+0.052}_{-0.051}$	Ω_Λ	0.6989	$0.693^{+0.025}_{-0.026}$	z_{drag}	1060.09	$1060.1^{+1.3}_{-1.2}$
A_{100}^{PS}	141	153^{+100}_{-100}	Ω_m	0.3011	$0.307^{+0.026}_{-0.025}$	r_{drag}	147.70	$147.98^{+0.96}_{-0.94}$
A_{143}^{PS}	58.5	49^{+20}_{-20}	σ_8	0.817	$0.776^{+0.071}_{-0.078}$	k_D	0.14022	$0.1400^{+0.0011}_{-0.0011}$
A_{217}^{PS}	119.3	107^{+30}_{-30}	z_{re}	11.42	$10.7^{+2.2}_{-2.2}$	$100\theta_D$	0.16092	$0.16094^{+0.00071}_{-0.00072}$
A_{143}^{CIB}	0.0	< 16.8	H_0	68.39	$67.8^{+2.0}_{-2.2}$	z_{eq}	3338	3309^{+99}_{-100}
A_{217}^{CIB}	23	27^{+10}_{-10}	$10^9 A_s$	2.215	$2.17^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8260	$0.832^{+0.021}_{-0.020}$
A_{143}^{tSZ}	6.10	—	$\Omega_m h^2$	0.14082	$0.1409^{+0.0034}_{-0.0032}$	$r_{\text{drag}}/D_V(0.57)$	0.07222	$0.0719^{+0.0014}_{-0.0014}$
$r_{143 \times 217}^{\text{PS}}$	0.941	> 0.745	$\Omega_m h^3$	0.09630	$0.0955^{+0.0019}_{-0.0020}$			

Best-fit $\chi_{\text{eff}}^2 = 9802.30$; R-1 = 0.01241

χ_{eff}^2 : BAO - DR9: 0.78 DR7: 0.45 6DF: 0.06 CMB - lowLike: 2014.43 lowl: -8.23 CamSpec: 7794.23

7.4 base_mnu_Alens_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02276	$0.02275^{+0.00068}_{-0.00066}$	$r_{143 \times 217}^{\text{CIB}}$	0.211	< 0.784	Y_P	0.248005	$0.24800^{+0.00028}_{-0.00028}$
$\Omega_c h^2$	0.11439	$0.1139^{+0.0050}_{-0.0049}$	γ^{CIB}	0.521	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8176	$1.812^{+0.023}_{-0.022}$
$100\theta_{\text{MC}}$	1.04222	$1.0423^{+0.0012}_{-0.0013}$	c_{100}	1.00061	$1.00061^{+0.00078}_{-0.00077}$	$\Omega_\nu h^2$	0.00001	< 0.00359
τ	0.0879	$0.090^{+0.027}_{-0.026}$	c_{217}	0.99618	$0.9962^{+0.0027}_{-0.0026}$	Age/Gyr	13.664	$13.72^{+0.16}_{-0.15}$
Σm_ν	0.001	< 0.334	$\xi^{\text{tSZ-CIB}}$	0.20	—	z_*	1089.05	$1089.0^{+1.1}_{-1.1}$
A_L	1.292	$1.31^{+0.26}_{-0.23}$	A^{kSZ}	0.0	—	r_*	145.60	$145.7^{+1.1}_{-1.1}$
n_s	0.9778	$0.977^{+0.015}_{-0.015}$	β_1^1	0.52	$0.3^{+1.1}_{-1.1}$	$100\theta_*$	1.04228	$1.0424^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.076	$3.077^{+0.052}_{-0.051}$	Ω_Λ	0.7254	$0.717^{+0.033}_{-0.035}$	z_{drag}	1060.51	$1060.5^{+1.4}_{-1.3}$
A_{100}^{PS}	106	150^{+100}_{-100}	Ω_m	0.2746	$0.283^{+0.035}_{-0.033}$	r_{drag}	148.16	$148.3^{+1.1}_{-1.0}$
A_{143}^{PS}	48.3	47^{+20}_{-20}	σ_8	0.820	$0.793^{+0.051}_{-0.061}$	k_D	0.13993	$0.1398^{+0.0012}_{-0.0012}$
A_{217}^{PS}	121.6	106^{+30}_{-30}	z_{re}	10.59	$10.7^{+2.2}_{-2.2}$	$100\theta_D$	0.16073	$0.16077^{+0.00073}_{-0.00071}$
A_{143}^{CIB}	0.0	< 16.4	H_0	70.68	$69.9^{+3.0}_{-3.1}$	z_{eq}	3277	3265^{+110}_{-110}
A_{217}^{CIB}	22	26^{+10}_{-10}	$10^9 A_s$	2.167	$2.17^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8385	$0.841^{+0.022}_{-0.023}$
A_{143}^{tSZ}	8.84	—	$\Omega_m h^2$	0.13716	$0.1379^{+0.0050}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.07384	$0.0734^{+0.0020}_{-0.0022}$
$r_{143 \times 217}^{\text{PS}}$	0.960	> 0.738	$\Omega_m h^3$	0.09694	$0.0963^{+0.0017}_{-0.0017}$			

Best-fit $\chi_{\text{eff}}^2 = 9802.73$; R-1 = 0.04452

χ_{eff}^2 : CMB - lowLike: 2014.02 lowl: -8.86 CamSpec: 7795.03 Hubble - HST: 1.75

7.5 base_mnu_Alens_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02238	$0.02236^{+0.00069}_{-0.00066}$	β_1^1	0.32	$0.2^{+1.1}_{-1.1}$	z_{re}	11.60	$10.7^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1177	$0.1171^{+0.0059}_{-0.0056}$	$A_{148}^{\text{PS, ACT}}$	10.45	$10.6^{+1.2}_{-1.1}$	H_0	68.7	$65.0^{+6.1}_{-6.5}$
$100\theta_{\text{MC}}$	1.04169	$1.0416^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.7	77^{+9}_{-9}	$10^9 A_s$	2.219	$2.16^{+0.11}_{-0.10}$
τ	0.0974	$0.086^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.56	$7.82^{+3.1}_{-2.9}$	$\Omega_m h^2$	0.1405	$0.1447^{+0.0097}_{-0.0089}$
Σm_ν	0.04	< 1.08	$A_{150}^{\text{PS, SPT}}$	10.02	$10.2^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.09650	$0.0939^{+0.0035}_{-0.0039}$
A_L	1.173	$1.31^{+0.27}_{-0.24}$	$A_{220}^{\text{PS, SPT}}$	73.5	75^{+9}_{-9}	Y_P	0.247842	$0.24783^{+0.00029}_{-0.00028}$
n_s	0.9649	$0.964^{+0.017}_{-0.017}$	$r_{95 \times 150}^{\text{PS}}$	0.800	> 0.684	$10^9 A_s e^{-2\tau}$	1.8258	$1.820^{+0.027}_{-0.025}$
$\ln(10^{10} A_s)$	3.0994	$3.073^{+0.050}_{-0.047}$	$r_{95 \times 220}^{\text{PS}}$	0.550	$0.58^{+0.23}_{-0.22}$	$\Omega_\nu h^2$	0.0004	< 0.0116
A_{100}^{PS}	192	203^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9082	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.748	$13.97^{+0.36}_{-0.32}$
A_{143}^{PS}	68.1	69^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.420	$0.43^{+0.36}_{-0.39}$	z_*	1089.80	$1089.9^{+1.4}_{-1.3}$
A_{217}^{PS}	57.0	56^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.840	$0.84^{+0.39}_{-0.39}$	r_*	145.03	$145.0^{+1.3}_{-1.4}$
A_{143}^{CIB}	3.29	$3.27^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9934	$0.994^{+0.015}_{-0.014}$	$100\theta_*$	1.04181	$1.0419^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	52.6	50^{+10}_{-10}	y_{217}^{ACTs}	1.0053	$1.008^{+0.027}_{-0.026}$	z_{drag}	1059.86	$1059.9^{+1.3}_{-1.2}$
A_{143}^{tSZ}	4.79	< 5.19	y_{148}^{ACTe}	0.9898	$0.990^{+0.014}_{-0.014}$	r_{drag}	147.70	$147.7^{+1.2}_{-1.3}$
$r_{143 \times 217}^{\text{PS}}$	0.805	$0.81^{+0.15}_{-0.14}$	y_{217}^{ACTe}	0.9636	$0.966^{+0.021}_{-0.020}$	k_D	0.14012	$0.1402^{+0.0014}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.844	y_{95}^{SPT}	0.9888	$0.988^{+0.040}_{-0.038}$	$100\theta_D$	0.16106	$0.16097^{+0.00071}_{-0.00071}$
γ^{CIB}	0.664	$0.65^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9893	$0.991^{+0.020}_{-0.019}$	z_{eq}	3346	3333^{+130}_{-120}
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{220}^{SPT}	1.0197	$1.027^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8240	$0.828^{+0.025}_{-0.025}$
c_{217}	0.99732	$0.9973^{+0.0026}_{-0.0026}$	Ω_Λ	0.702	$0.654^{+0.083}_{-0.097}$	$r_{\text{drag}}/D_V(0.57)$	0.07242	$0.0701^{+0.0041}_{-0.0043}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.794	Ω_m	0.298	$0.346^{+0.097}_{-0.083}$			
A^{kSZ}	1.11	$4.74^{+3.7}_{-4.6}$	σ_8	0.832	$0.72^{+0.11}_{-0.12}$			

Best-fit $\chi_{\text{eff}}^2 = 10504.87$; R-1 = 0.00775

χ_{eff}^2 : CMB - lowLike: 2014.58 lowl: -7.04 CamSpec: 7807.50 highL: 689.75

7.6 base_mnu_Alens_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02210	$0.02214^{+0.00064}_{-0.00066}$	β_1^1	0.31	$0.3^{+1.1}_{-1.2}$	z_{re}	9.57	$10.9^{+2.2}_{-2.4}$
$\Omega_c h^2$	0.1181	$0.1175^{+0.0057}_{-0.0058}$	$A_{148}^{\text{PS, ACT}}$	10.47	$10.6^{+1.1}_{-1.1}$	H_0	61.9	$62.4^{+6.2}_{-5.9}$
$100\theta_{\text{MC}}$	1.04117	$1.0413^{+0.0014}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.8	77^{+9}_{-9}	$10^9 A_s$	2.103	$2.16^{+0.10}_{-0.11}$
τ	0.0718	$0.087^{+0.026}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.54	$7.65^{+3.0}_{-2.7}$	$\Omega_m h^2$	0.1485	$0.1477^{+0.0090}_{-0.0092}$
Σm_ν	0.77	$0.75^{+0.59}_{-0.63}$	$A_{150}^{\text{PS, SPT}}$	9.997	$10.15^{+0.96}_{-1.0}$	$\Omega_m h^3$	0.09191	$0.0921^{+0.0037}_{-0.0033}$
A_L	1.231	$1.20^{+0.17}_{-0.17}$	$A_{220}^{\text{PS, SPT}}$	73.8	74^{+9}_{-9}	Y_P	0.247723	$0.24774^{+0.00027}_{-0.00029}$
n_s	0.9583	$0.960^{+0.018}_{-0.017}$	$r_{95 \times 150}^{\text{PS}}$	0.793	> 0.694	$10^9 A_s e^{-2\tau}$	1.8214	$1.818^{+0.029}_{-0.026}$
$\ln(10^{10} A_s)$	3.046	$3.073^{+0.048}_{-0.052}$	$r_{95 \times 220}^{\text{PS}}$	0.552	$0.59^{+0.23}_{-0.21}$	$\Omega_\nu h^2$	0.0083	$0.0081^{+0.0063}_{-0.0068}$
A_{100}^{PS}	207	210^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9151	$0.936^{+0.047}_{-0.044}$	Age/Gyr	14.154	$14.13^{+0.32}_{-0.35}$
A_{143}^{PS}	74.1	73^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.43^{+0.37}_{-0.37}$	z_*	1090.43	$1090.3^{+1.4}_{-1.3}$
A_{217}^{PS}	61.0	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.83^{+0.37}_{-0.39}$	r_*	144.78	$144.9^{+1.4}_{-1.4}$
A_{143}^{CIB}	3.05	$3.29^{+1.6}_{-1.7}$	y_{148}^{ACTs}	0.9909	$0.992^{+0.014}_{-0.015}$	$100\theta_*$	1.04161	$1.0417^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	50.9	50^{+10}_{-10}	y_{217}^{ACTs}	1.0034	$1.006^{+0.028}_{-0.025}$	z_{drag}	1059.44	$1059.5^{+1.1}_{-1.2}$
A_{143}^{tSZ}	3.83	< 5.06	y_{148}^{ACTe}	0.9871	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.53	$147.6^{+1.4}_{-1.3}$
$r_{143 \times 217}^{\text{PS}}$	0.816	$0.82^{+0.14}_{-0.14}$	y_{217}^{ACTe}	0.9618	$0.964^{+0.020}_{-0.020}$	k_D	0.14029	$0.1402^{+0.0013}_{-0.0014}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.859	y_{95}^{SPT}	0.9827	$0.985^{+0.041}_{-0.038}$	$100\theta_D$	0.16112	$0.16109^{+0.00069}_{-0.00069}$
γ^{CIB}	0.642	$0.64^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9849	$0.988^{+0.019}_{-0.019}$	z_{eq}	3351	3336^{+130}_{-130}
c_{100}	1.00060	$1.00057^{+0.00084}_{-0.00089}$	y_{220}^{SPT}	1.0181	$1.024^{+0.046}_{-0.045}$	$100\theta_{\text{eq}}$	0.8236	$0.827^{+0.027}_{-0.025}$
c_{217}	0.99725	$0.9973^{+0.0027}_{-0.0027}$	Ω_Λ	0.612	$0.617^{+0.091}_{-0.096}$	$r_{\text{drag}}/D_V(0.57)$	0.06810	$0.0685^{+0.0041}_{-0.0039}$
$\xi^{\text{tSZ-CIB}}$	0.07	—	Ω_m	0.388	$0.383^{+0.096}_{-0.091}$			
A^{kSZ}	2.97	$4.99^{+3.8}_{-4.3}$	σ_8	0.659	$0.67^{+0.12}_{-0.10}$			

Best-fit $\chi_{\text{eff}}^2 = 10513.82$; R-1 = 0.08854

χ_{eff}^2 : CMB - lowLike: 2016.35 lensing: 6.11 lowl: -8.41 CamSpec: 7807.90 highL: 691.71

7.7 base_mnu_Alens_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02239	$0.02251^{+0.00059}_{-0.00056}$	β_1^1	0.36	$0.2^{+1.1}_{-1.1}$	z_{re}	11.61	$10.6^{+2.1}_{-2.2}$
$\Omega_c h^2$	0.11770	$0.1159^{+0.0044}_{-0.0045}$	$A_{148}^{\text{PS, ACT}}$	10.45	$10.7^{+1.2}_{-1.2}$	H_0	68.47	$67.9^{+2.0}_{-2.1}$
$100\theta_{\text{MC}}$	1.04168	$1.0419^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.2	77^{+9}_{-9}	$10^9 A_s$	2.219	$2.16^{+0.11}_{-0.10}$
τ	0.0975	$0.087^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.55	$7.91^{+3.1}_{-3.0}$	$\Omega_m h^2$	0.14078	$0.1408^{+0.0034}_{-0.0032}$
Σm_ν	0.064	< 0.479	$A_{150}^{\text{PS, SPT}}$	10.01	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.09640	$0.0955^{+0.0018}_{-0.0020}$
A_L	1.180	$1.29^{+0.26}_{-0.25}$	$A_{220}^{\text{PS, SPT}}$	73.0	75^{+9}_{-9}	Y_P	0.247847	$0.24790^{+0.00025}_{-0.00024}$
n_s	0.9650	$0.968^{+0.013}_{-0.013}$	$r_{95 \times 150}^{\text{PS}}$	0.803	> 0.687	$10^9 A_s e^{-2\tau}$	1.8260	$1.817^{+0.022}_{-0.023}$
$\ln(10^{10} A_s)$	3.0997	$3.073^{+0.050}_{-0.047}$	$r_{95 \times 220}^{\text{PS}}$	0.559	$0.58^{+0.23}_{-0.22}$	$\Omega_\nu h^2$	0.00069	< 0.00515
A_{100}^{PS}	193	199^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9091	$0.935^{+0.048}_{-0.044}$	Age/Gyr	13.760	$13.82^{+0.14}_{-0.13}$
A_{143}^{PS}	68.0	67^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.43^{+0.35}_{-0.40}$	z_*	1089.79	$1089.51^{+0.95}_{-0.95}$
A_{217}^{PS}	56.0	54^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.839	$0.84^{+0.39}_{-0.39}$	r_*	145.01	$145.36^{+0.96}_{-0.96}$
A_{143}^{CIB}	3.34	$3.28^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9936	$0.995^{+0.014}_{-0.014}$	$100\theta_*$	1.04182	$1.0421^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	53.4	51^{+10}_{-10}	y_{217}^{ACTs}	1.0056	$1.009^{+0.027}_{-0.025}$	z_{drag}	1059.89	$1060.1^{+1.2}_{-1.2}$
A_{143}^{tSZ}	4.94	< 5.28	y_{148}^{ACTe}	0.9902	$0.991^{+0.014}_{-0.014}$	r_{drag}	147.68	$148.00^{+0.98}_{-0.97}$
$r_{143 \times 217}^{\text{PS}}$	0.813	$0.81^{+0.15}_{-0.15}$	y_{217}^{ACTe}	0.9637	$0.967^{+0.021}_{-0.020}$	k_D	0.14016	$0.1399^{+0.0011}_{-0.0011}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.844	y_{95}^{SPT}	0.9884	$0.990^{+0.039}_{-0.040}$	$100\theta_D$	0.16104	$0.16094^{+0.00068}_{-0.00068}$
γ^{CIB}	0.675	$0.66^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9894	$0.993^{+0.020}_{-0.019}$	z_{eq}	3347	3307^{+99}_{-100}
c_{100}	1.00058	$1.00059^{+0.00080}_{-0.00078}$	y_{220}^{SPT}	1.0199	$1.028^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8238	$0.832^{+0.021}_{-0.020}$
c_{217}	0.99734	$0.9973^{+0.0027}_{-0.0026}$	Ω_Λ	0.6997	$0.694^{+0.025}_{-0.026}$	$r_{\text{drag}}/D_V(0.57)$	0.07227	$0.0720^{+0.0014}_{-0.0014}$
$\xi^{\text{tSZ-CIB}}$	0.001	< 0.780	Ω_m	0.3003	$0.306^{+0.026}_{-0.025}$			
A^{kSZ}	0.91	< 7.99	σ_8	0.827	$0.774^{+0.068}_{-0.077}$			

Best-fit $\chi_{\text{eff}}^2 = 10506.22$; R-1 = 0.01599

χ_{eff}^2 : BAO - DR7: 0.38 DR9: 0.86 6DF: 0.07 CMB - lowLike: 2014.62 lowl: -7.11 CamSpec: 7807.62 highL: 689.70

7.8 base_mnu_Alens_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02266	$0.02272^{+0.00064}_{-0.00060}$	β_1^1	0.30	$0.2^{+1.1}_{-1.1}$	z_{re}	11.32	$10.7^{+2.1}_{-2.2}$
$\Omega_c h^2$	0.11467	$0.1139^{+0.0049}_{-0.0048}$	$A_{148}^{\text{PS, ACT}}$	10.48	$10.7^{+1.2}_{-1.1}$	H_0	70.47	$69.8^{+2.9}_{-2.9}$
$100\theta_{\text{MC}}$	1.04215	$1.0422^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	77.4	77^{+9}_{-9}	$10^9 A_s$	2.198	$2.16^{+0.11}_{-0.10}$
τ	0.0962	$0.089^{+0.026}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.73	$7.99^{+3.2}_{-3.0}$	$\Omega_m h^2$	0.13734	$0.1379^{+0.0049}_{-0.0047}$
Σm_ν	0.001	< 0.327	$A_{150}^{\text{PS, SPT}}$	10.18	$10.4^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.09678	$0.0962^{+0.0016}_{-0.0017}$
A_L	1.241	$1.30^{+0.24}_{-0.23}$	$A_{220}^{\text{PS, SPT}}$	74.2	75^{+9}_{-9}	Y_P	0.247964	$0.24799^{+0.00027}_{-0.00025}$
n_s	0.9723	$0.973^{+0.015}_{-0.014}$	$r_{95 \times 150}^{\text{PS}}$	0.787	> 0.689	$10^9 A_s e^{-2\tau}$	1.8138	$1.809^{+0.023}_{-0.025}$
$\ln(10^{10} A_s)$	3.0903	$3.074^{+0.051}_{-0.047}$	$r_{95 \times 220}^{\text{PS}}$	0.543	$0.58^{+0.23}_{-0.22}$	$\Omega_\nu h^2$	0.00001	< 0.00352
A_{100}^{PS}	191	196^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9100	$0.934^{+0.048}_{-0.045}$	Age/Gyr	13.678	$13.72^{+0.15}_{-0.14}$
A_{143}^{PS}	64.6	65^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.420	$0.43^{+0.35}_{-0.40}$	z_*	1089.19	$1089.1^{+1.0}_{-1.1}$
A_{217}^{PS}	55.3	52^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.825	$0.84^{+0.39}_{-0.39}$	r_*	145.60	$145.7^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.15	$3.30^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9953	$0.995^{+0.014}_{-0.014}$	$100\theta_*$	1.04222	$1.0424^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	52.0	51^{+10}_{-10}	y_{217}^{ACTs}	1.0073	$1.010^{+0.027}_{-0.027}$	z_{drag}	1060.31	$1060.4^{+1.3}_{-1.2}$
A_{143}^{tSZ}	4.66	< 5.34	y_{148}^{ACTe}	0.9915	$0.992^{+0.014}_{-0.014}$	r_{drag}	148.19	$148.3^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.787	$0.81^{+0.16}_{-0.15}$	y_{217}^{ACTe}	0.9654	$0.969^{+0.021}_{-0.020}$	k_D	0.13982	$0.1397^{+0.0011}_{-0.0012}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.838	y_{95}^{SPT}	0.9927	$0.992^{+0.041}_{-0.041}$	$100\theta_D$	0.16084	$0.16081^{+0.00068}_{-0.00070}$
γ^{CIB}	0.664	$0.66^{+0.15}_{-0.16}$	y_{150}^{SPT}	0.9924	$0.995^{+0.019}_{-0.019}$	z_{eq}	3282	3265^{+110}_{-110}
c_{100}	1.00059	$1.00061^{+0.00079}_{-0.00077}$	y_{220}^{SPT}	1.0216	$1.029^{+0.046}_{-0.044}$	$100\theta_{\text{eq}}$	0.8373	$0.841^{+0.023}_{-0.022}$
c_{217}	0.99734	$0.9973^{+0.0027}_{-0.0027}$	Ω_Λ	0.7234	$0.716^{+0.033}_{-0.034}$	$r_{\text{drag}}/D_V(0.57)$	0.07372	$0.0733^{+0.0020}_{-0.0021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.749	Ω_m	0.2766	$0.284^{+0.034}_{-0.033}$			
A^{kSZ}	1.35	< 7.74	σ_8	0.826	$0.790^{+0.050}_{-0.060}$			

Best-fit $\chi_{\text{eff}}^2 = 10506.70$; R-1 = 0.04752

χ_{eff}^2 : CMB - lowLike: 2014.15 lowl: -8.22 CamSpec: 7809.58 highL: 689.14 Hubble - HST: 1.98

8 mnu+omegak

8.1 base_mnu_omegak_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02208	$0.02211^{+0.00068}_{-0.00068}$	$r_{143 \times 217}^{\text{CIB}}$	0.382	< 0.806	Y_P	0.247716	$0.24773^{+0.00029}_{-0.00030}$
$\Omega_c h^2$	0.1206	$0.1195^{+0.0058}_{-0.0054}$	γ^{CIB}	0.549	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8429	$1.832^{+0.026}_{-0.025}$
$100\theta_{\text{MC}}$	1.04118	$1.0412^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00079}_{-0.00078}$	$\Omega_\nu h^2$	0.0000	< 0.0121
τ	0.0922	$0.086^{+0.026}_{-0.024}$	c_{217}	0.99641	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.85	$15.7^{+2.0}_{-1.8}$
Ω_K	-0.001	$-0.063^{+0.076}_{-0.10}$	$\xi^{\text{tSZ-CIB}}$	0.54	—	z_*	1090.44	$1090.4^{+1.5}_{-1.3}$
Σm_ν	0.00	< 1.13	A^{kSZ}	0.2	—	r_*	144.50	$144.6^{+1.2}_{-1.4}$
n_s	0.9629	$0.960^{+0.017}_{-0.018}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04131	$1.0415^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.0984	$3.080^{+0.050}_{-0.048}$	Ω_Λ	0.683	$0.43^{+0.30}_{-0.40}$	z_{drag}	1059.40	$1059.5^{+1.3}_{-1.3}$
A_{100}^{PS}	154	165^{+100}_{-100}	Ω_m	0.318	$0.64^{+0.50}_{-0.37}$	r_{drag}	147.26	$147.3^{+1.2}_{-1.3}$
A_{143}^{PS}	66.2	52^{+30}_{-30}	σ_8	0.849	$0.71^{+0.14}_{-0.15}$	k_D	0.14036	$0.1404^{+0.0014}_{-0.0013}$
A_{217}^{PS}	123.6	107^{+30}_{-30}	z_{re}	11.32	$10.7^{+2.2}_{-2.2}$	$100\theta_D$	0.16130	$0.16118^{+0.00073}_{-0.00071}$
A_{143}^{CIB}	0.0	—	H_0	67.0	50^{+10}_{-20}	z_{eq}	3409	3383^{+130}_{-120}
A_{217}^{CIB}	24	28^{+20}_{-10}	$10^9 A_s$	2.216	$2.18^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8114	$0.817^{+0.023}_{-0.024}$
A_{143}^{tSZ}	5.13	—	$\Omega_m h^2$	0.1427	$0.147^{+0.010}_{-0.0095}$	$r_{\text{drag}}/D_V(0.57)$	0.0711	$0.0592^{+0.010}_{-0.0098}$
$r_{143 \times 217}^{\text{PS}}$	0.958	> 0.735	$\Omega_m h^3$	0.0955	$0.073^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.22$; R-1 = 0.00688

χ_{eff}^2 : CMB - lowLike: 2014.45 lowl: -6.89 CamSpec: 7797.09

8.2 base_mnu_omegak_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02222^{+0.00062}_{-0.00062}$	β_1^1	0.49	$0.3^{+1.1}_{-1.1}$	z_{re}	11.58	$10.5^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1200	$0.1187^{+0.0056}_{-0.0053}$	$A_{148}^{\text{PS, ACT}}$	10.34	$10.6^{+1.2}_{-1.1}$	H_0	66.3	49^{+10}_{-10}
$100\theta_{\text{MC}}$	1.04138	$1.0414^{+0.0013}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	$10^9 A_s$	2.222	$2.17^{+0.11}_{-0.10}$
τ	0.0957	$0.085^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.43	$7.87^{+3.0}_{-2.9}$	$\Omega_m h^2$	0.1422	$0.1452^{+0.0096}_{-0.0085}$
Ω_K	-0.003	$-0.070^{+0.076}_{-0.10}$	$A_{150}^{\text{PS, SPT}}$	9.89	$10.2^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.0943	$0.071^{+0.018}_{-0.019}$
Σm_ν	0.000	< 0.976	$A_{220}^{\text{PS, SPT}}$	73.1	75^{+9}_{-9}	Y_P	0.247744	$0.24777^{+0.00027}_{-0.00027}$
n_s	0.9596	$0.960^{+0.015}_{-0.016}$	$r_{95 \times 150}^{\text{PS}}$	0.789	> 0.685	$10^9 A_s e^{-2\tau}$	1.8348	$1.828^{+0.025}_{-0.024}$
$\ln(10^{10} A_s)$	3.1010	$3.077^{+0.050}_{-0.047}$	$r_{95 \times 220}^{\text{PS}}$	0.543	$0.58^{+0.23}_{-0.22}$	$\Omega_\nu h^2$	0.0000	< 0.0105
A_{100}^{PS}	205	208^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9115	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.93	$15.9^{+1.9}_{-1.7}$
A_{143}^{PS}	70.7	71^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.432	$0.43^{+0.36}_{-0.39}$	z_*	1090.31	$1090.2^{+1.3}_{-1.2}$
A_{217}^{PS}	59.7	57^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.84^{+0.39}_{-0.39}$	r_*	144.59	$144.7^{+1.2}_{-1.3}$
A_{143}^{CIB}	3.12	$3.27^{+1.7}_{-1.6}$	y_{148}^{ACTs}	0.9921	$0.993^{+0.015}_{-0.014}$	$100\theta_*$	1.04150	$1.0417^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	52.1	50^{+10}_{-10}	y_{217}^{ACTs}	1.0037	$1.007^{+0.027}_{-0.026}$	z_{drag}	1059.47	$1059.6^{+1.2}_{-1.2}$
A_{143}^{tSZ}	4.55	< 5.08	y_{148}^{ACTe}	0.9885	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.33	$147.5^{+1.2}_{-1.3}$
$r_{143 \times 217}^{\text{PS}}$	0.809	$0.82^{+0.15}_{-0.14}$	y_{217}^{ACTe}	0.9618	$0.965^{+0.021}_{-0.020}$	k_D	0.14033	$0.1403^{+0.0014}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.842	y_{95}^{SPT}	0.9853	$0.986^{+0.040}_{-0.038}$	$100\theta_D$	0.16125	$0.16111^{+0.00067}_{-0.00067}$
γ^{CIB}	0.663	$0.65^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9863	$0.990^{+0.020}_{-0.019}$	z_{eq}	3397	3368^{+120}_{-120}
c_{100}	1.00058	$1.00059^{+0.00077}_{-0.00078}$	y_{220}^{SPT}	1.0173	$1.026^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8139	$0.820^{+0.023}_{-0.023}$
c_{217}	0.99736	$0.9973^{+0.0026}_{-0.0026}$	Ω_Λ	0.680	$0.43^{+0.28}_{-0.38}$	$r_{\text{drag}}/D_V(0.57)$	0.0706	$0.0585^{+0.0094}_{-0.0092}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.808	Ω_m	0.323	$0.64^{+0.48}_{-0.35}$			
A^{kSZ}	1.83	$4.75^{+3.8}_{-4.6}$	σ_8	0.846	$0.71^{+0.12}_{-0.15}$			

Best-fit $\chi_{\text{eff}}^2 = 10507.83$; R-1 = 0.01164

χ_{eff}^2 : CMB - lowLike: 2014.82 lowl: -6.29 CamSpec: 7807.33 highL: 691.86

8.3 base_mnu_omegak_planck_lowl_lowLike_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02208^{+0.00061}_{-0.00061}$	$r_{143 \times 217}^{\text{CIB}}$	0.495	< 0.822	Y_P	0.247745	$0.24771^{+0.00026}_{-0.00027}$
$\Omega_c h^2$	0.1192	$0.1191^{+0.0055}_{-0.0051}$	γ^{CIB}	0.546	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8370	$1.832^{+0.025}_{-0.024}$
$100\theta_{\text{MC}}$	1.04145	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00058^{+0.00078}_{-0.00079}$	$\Omega_\nu h^2$	0.00000	< 0.00477
τ	0.0938	$0.092^{+0.027}_{-0.025}$	c_{217}	0.99645	$0.9964^{+0.0027}_{-0.0026}$	Age/Gyr	13.797	$13.77^{+0.27}_{-0.29}$
Ω_K	-0.0005	$0.0016^{+0.0095}_{-0.0088}$	$\xi^{\text{tSZ-CIB}}$	0.51	—	z_*	1090.22	$1090.3^{+1.2}_{-1.1}$
Σm_ν	0.000	< 0.443	A^{kSZ}	0.4	—	r_*	144.81	$144.9^{+1.1}_{-1.2}$
n_s	0.9657	$0.962^{+0.015}_{-0.015}$	β_1^1	0.71	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04157	$1.0416^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.098	$3.091^{+0.052}_{-0.048}$	Ω_Λ	0.6938	$0.686^{+0.027}_{-0.030}$	z_{drag}	1059.44	$1059.3^{+1.2}_{-1.2}$
A_{100}^{PS}	160	172^{+100}_{-100}	Ω_m	0.3067	$0.312^{+0.026}_{-0.024}$	r_{drag}	147.55	$147.6^{+1.1}_{-1.2}$
A_{143}^{PS}	66.7	54^{+30}_{-30}	σ_8	0.845	$0.810^{+0.055}_{-0.070}$	k_D	0.14010	$0.1400^{+0.0012}_{-0.0012}$
A_{217}^{PS}	123.3	106^{+30}_{-30}	z_{re}	11.40	$11.3^{+2.2}_{-2.2}$	$100\theta_D$	0.16129	$0.16137^{+0.00070}_{-0.00067}$
A_{143}^{CIB}	0.0	—	H_0	67.88	$67.7^{+2.1}_{-2.0}$	z_{eq}	3377	3373^{+120}_{-110}
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8175	$0.818^{+0.023}_{-0.023}$
A_{143}^{tSZ}	5.05	—	$\Omega_m h^2$	0.1413	$0.1427^{+0.0068}_{-0.0063}$	$r_{\text{drag}}/D_V(0.57)$	0.07182	$0.0718^{+0.0016}_{-0.0015}$
$r_{143 \times 217}^{\text{PS}}$	0.948	> 0.732	$\Omega_m h^3$	0.0959	$0.0966^{+0.0053}_{-0.0050}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.65$; R-1 = 0.00790

χ_{eff}^2 : BAO - DR9: 0.29 DR7: 1.08 6DF: 0.02 CMB - lowLike: 2014.41 lowl: -7.30 CamSpec: 7797.55

8.4 base_mnu_omegak_planck_lowl_lowLike_highL_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02224	$0.02215^{+0.00057}_{-0.00058}$	β_1^1	0.46	$0.4^{+1.1}_{-1.1}$	z_{re}	11.52	$11.3^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1194	$0.1186^{+0.0053}_{-0.0051}$	$A_{148}^{\text{PS, ACT}}$	10.35	$10.5^{+1.2}_{-1.1}$	H_0	68.22	$67.6^{+2.1}_{-2.2}$
$100\theta_{\text{MC}}$	1.04163	$1.0415^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.4	77^{+9}_{-9}	$10^9 A_s$	2.218	$2.20^{+0.11}_{-0.11}$
τ	0.0955	$0.093^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.50	$7.66^{+3.0}_{-2.9}$	$\Omega_m h^2$	0.1416	$0.1419^{+0.0060}_{-0.0053}$
Ω_K	0.0000	$0.0003^{+0.0082}_{-0.0074}$	$A_{150}^{\text{PS, SPT}}$	9.89	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.09662	$0.0959^{+0.0048}_{-0.0047}$
Σm_ν	0.002	< 0.320	$A_{220}^{\text{PS, SPT}}$	73.2	74^{+9}_{-9}	Y_P	0.247786	$0.24774^{+0.00024}_{-0.00025}$
n_s	0.9617	$0.961^{+0.014}_{-0.014}$	$r_{95 \times 150}^{\text{PS}}$	0.785	> 0.681	$10^9 A_s e^{-2\tau}$	1.8325	$1.828^{+0.024}_{-0.024}$
$\ln(10^{10} A_s)$	3.0994	$3.091^{+0.051}_{-0.048}$	$r_{95 \times 220}^{\text{PS}}$	0.537	$0.58^{+0.24}_{-0.23}$	$\Omega_\nu h^2$	0.00002	< 0.00344
A_{100}^{PS}	201	213^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9112	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.758	$13.81^{+0.28}_{-0.26}$
A_{143}^{PS}	70.1	73^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.36}_{-0.39}$	z_*	1090.12	$1090.2^{+1.1}_{-1.1}$
A_{217}^{PS}	58.8	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.85^{+0.39}_{-0.39}$	r_*	144.69	$145.0^{+1.1}_{-1.2}$
A_{143}^{CIB}	3.12	$3.23^{+1.7}_{-1.5}$	y_{148}^{ACTs}	0.9927	$0.992^{+0.015}_{-0.014}$	$100\theta_*$	1.04174	$1.0416^{+0.0013}_{-0.0012}$
A_{217}^{CIB}	52.2	50^{+10}_{-10}	y_{217}^{ACTs}	1.0041	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.67	$1059.4^{+1.2}_{-1.1}$
A_{143}^{tSZ}	4.53	< 5.06	y_{148}^{ACTe}	0.9889	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.40	$147.7^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.810	$0.82^{+0.14}_{-0.14}$	y_{217}^{ACTe}	0.9625	$0.964^{+0.021}_{-0.020}$	k_D	0.14034	$0.1400^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{95}^{SPT}	0.9860	$0.984^{+0.039}_{-0.037}$	$100\theta_D$	0.16117	$0.16131^{+0.00066}_{-0.00063}$
γ^{CIB}	0.662	$0.64^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9867	$0.988^{+0.019}_{-0.019}$	z_{eq}	3384	3363^{+120}_{-120}
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00077}$	y_{220}^{SPT}	1.0180	$1.024^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8168	$0.820^{+0.023}_{-0.022}$
c_{217}	0.99744	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.6957	$0.689^{+0.025}_{-0.026}$	$r_{\text{drag}}/D_V(0.57)$	0.07202	$0.0717^{+0.0015}_{-0.0016}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.848	Ω_m	0.3043	$0.311^{+0.025}_{-0.024}$			
A^{kSZ}	1.91	$5.43^{+4.0}_{-4.4}$	σ_8	0.845	$0.816^{+0.046}_{-0.054}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.98$; R-1 = 0.01708

χ_{eff}^2 : BAO - DR7: 0.74 DR9: 0.51 6DF: 0.04 CMB - lowLike: 2014.53 lowl: -6.41 CamSpec: 7808.53 highL: 691.94

8.5 base_mnu_omegak_planck_lowl_lowLike_highL_BAO_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02217^{+0.00059}_{-0.00058}$	β_1^1	0.53	$0.4^{+1.1}_{-1.1}$	z_{re}	11.64	$11.3^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1191	$0.1187^{+0.0054}_{-0.0051}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.5^{+1.2}_{-1.1}$	H_0	68.86	$68.6^{+1.9}_{-1.9}$
$100\theta_{\text{MC}}$	1.04158	$1.0415^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	75.9	77^{+9}_{-9}	$10^9 A_s$	2.221	$2.20^{+0.11}_{-0.11}$
τ	0.0967	$0.093^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.03	$7.66^{+3.0}_{-2.9}$	$\Omega_m h^2$	0.1413	$0.1419^{+0.0058}_{-0.0052}$
Ω_K	0.0012	$0.0020^{+0.0074}_{-0.0074}$	$A_{150}^{\text{PS, SPT}}$	9.72	$10.07^{+0.99}_{-0.99}$	$\Omega_m h^3$	0.09731	$0.0973^{+0.0048}_{-0.0048}$
Σm_ν	0.000	< 0.274	$A_{220}^{\text{PS, SPT}}$	72.7	74^{+9}_{-9}	Y_P	0.247759	$0.24775^{+0.00025}_{-0.00025}$
n_s	0.9610	$0.961^{+0.014}_{-0.014}$	$r_{95 \times 150}^{\text{PS}}$	0.828	> 0.683	$10^9 A_s e^{-2\tau}$	1.8306	$1.828^{+0.025}_{-0.024}$
$\ln(10^{10} A_s)$	3.1006	$3.091^{+0.051}_{-0.049}$	$r_{95 \times 220}^{\text{PS}}$	0.573	$0.58^{+0.23}_{-0.23}$	$\Omega_\nu h^2$	0.00000	< 0.00294
A_{100}^{PS}	214	213^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9075	$0.937^{+0.048}_{-0.045}$	Age/Gyr	13.704	$13.71^{+0.25}_{-0.27}$
A_{143}^{PS}	72.3	72^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.431	$0.43^{+0.37}_{-0.38}$	z_*	1090.18	$1090.2^{+1.1}_{-1.1}$
A_{217}^{PS}	59.7	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.817	$0.84^{+0.40}_{-0.40}$	r_*	144.80	$144.9^{+1.1}_{-1.2}$
A_{143}^{CIB}	3.47	$3.24^{+1.7}_{-1.6}$	y_{148}^{ACTs}	0.9920	$0.992^{+0.015}_{-0.014}$	$100\theta_*$	1.04168	$1.0416^{+0.0013}_{-0.0012}$
A_{217}^{CIB}	53.2	50^{+10}_{-9}	y_{217}^{ACTs}	1.0035	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.51	$1059.5^{+1.2}_{-1.2}$
A_{143}^{tSZ}	4.96	< 5.08	y_{148}^{ACTe}	0.9876	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.53	$147.7^{+1.1}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.15}_{-0.14}$	y_{217}^{ACTe}	0.9616	$0.964^{+0.020}_{-0.020}$	k_D	0.14015	$0.1400^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.843	y_{95}^{SPT}	0.9846	$0.984^{+0.039}_{-0.036}$	$100\theta_D$	0.16126	$0.16129^{+0.00066}_{-0.00064}$
γ^{CIB}	0.669	$0.64^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9847	$0.988^{+0.019}_{-0.019}$	z_{eq}	3376	3366^{+120}_{-120}
c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00078}$	y_{220}^{SPT}	1.0195	$1.024^{+0.046}_{-0.045}$	$100\theta_{\text{eq}}$	0.8178	$0.820^{+0.023}_{-0.023}$
c_{217}	0.99723	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.7008	$0.696^{+0.022}_{-0.023}$	$r_{\text{drag}}/D_V(0.57)$	0.07255	$0.0725^{+0.0014}_{-0.0014}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_m	0.2980	$0.302^{+0.021}_{-0.020}$			
A^{kSZ}	1.16	—	σ_8	0.8451	$0.820^{+0.043}_{-0.049}$			

Best-fit $\chi_{\text{eff}}^2 = 10515.25$; R-1 = 0.03345

χ_{eff}^2 : BAO - DR9: 1.36 DR7: 0.14 6DF: 0.13 CMB - lowLike: 2014.55 lowl: -6.05 CamSpec: 7808.16 highL: 692.68 Hubble - HST: 4.23

8.6 base_mnu_omegak_planck_lowl_lowLike_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02213^{+0.00062}_{-0.00060}$	$r_{143 \times 217}^{\text{PS}}$	0.932	> 0.736	Y_P	0.247752	$0.24774^{+0.00026}_{-0.00026}$
$\Omega_c h^2$	0.1188	$0.1184^{+0.0054}_{-0.0052}$	$r_{143 \times 217}^{\text{CIB}}$	0.51	—	$10^9 A_s e^{-2\tau}$	1.8349	$1.829^{+0.025}_{-0.025}$
$100\theta_{\text{MC}}$	1.04143	$1.0415^{+0.0013}_{-0.0013}$	γ^{CIB}	0.561	$0.53^{+0.23}_{-0.25}$	$\Omega_\nu h^2$	0.00000	< 0.00357
τ	0.0944	$0.092^{+0.027}_{-0.025}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00078}$	Age/Gyr	13.72	$13.70^{+0.81}_{-0.81}$
Ω_K	0.0009	$0.002^{+0.018}_{-0.019}$	c_{217}	0.99642	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.17	$1090.2^{+1.2}_{-1.1}$
Σm_ν	0.000	< 0.332	$\xi^{\text{tSZ-CIB}}$	0.26	—	r_*	144.89	$145.0^{+1.2}_{-1.2}$
n_s	0.9658	$0.964^{+0.015}_{-0.015}$	A^{kSZ}	0.7	—	$100\theta_*$	1.04155	$1.0416^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.098	$3.091^{+0.051}_{-0.049}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.44	$1059.3^{+1.2}_{-1.2}$
α_{SNLS}	1.418	$1.43^{+0.22}_{-0.20}$	Ω_Λ	0.701	$0.696^{+0.052}_{-0.058}$	r_{drag}	147.63	$147.8^{+1.1}_{-1.1}$
β_{SNLS}	3.247	$3.26^{+0.22}_{-0.21}$	Ω_m	0.298	$0.302^{+0.073}_{-0.070}$	k_D	0.14003	$0.1399^{+0.0012}_{-0.0012}$
A_{100}^{PS}	151	171^{+100}_{-100}	σ_8	0.844	$0.816^{+0.048}_{-0.056}$	$100\theta_D$	0.16127	$0.16134^{+0.00070}_{-0.00069}$
A_{143}^{PS}	64.5	53^{+30}_{-30}	z_{re}	11.44	$11.3^{+2.2}_{-2.2}$	z_{eq}	3369	3359^{+120}_{-120}
A_{217}^{PS}	120.3	106^{+30}_{-30}	H_0	68.8	69^{+8}_{-8}	$100\theta_{\text{eq}}$	0.8191	$0.821^{+0.023}_{-0.023}$
A_{143}^{CIB}	0.0	—	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.0725	$0.0728^{+0.0064}_{-0.0062}$
A_{217}^{CIB}	25	29^{+20}_{-10}	$\Omega_m h^2$	0.1410	$0.1418^{+0.0061}_{-0.0058}$			
A_{143}^{tSZ}	5.93	—	$\Omega_m h^3$	0.0969	$0.098^{+0.013}_{-0.013}$			

Best-fit $\chi_{\text{eff}}^2 = 10228.76$; R-1 = 0.01130

χ_{eff}^2 : CMB - lowLike: 2014.33 lowl: -7.13 CamSpec: 7797.93 SN - SNLS: 423.15

8.7 base_mnu_omegak_planck_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02216	$0.02215^{+0.00061}_{-0.00059}$	$r_{143 \times 217}^{\text{PS}}$	0.891	> 0.736	Y_P	0.247752	$0.24774^{+0.00026}_{-0.00026}$
$\Omega_c h^2$	0.1185	$0.1183^{+0.0052}_{-0.0050}$	$r_{143 \times 217}^{\text{CIB}}$	0.348	< 0.824	$10^9 A_s e^{-2\tau}$	1.8314	$1.829^{+0.025}_{-0.024}$
$100\theta_{\text{MC}}$	1.04136	$1.0415^{+0.0013}_{-0.0013}$	γ^{CIB}	0.530	$0.53^{+0.23}_{-0.25}$	$\Omega_\nu h^2$	0.00002	< 0.00346
τ	0.0958	$0.093^{+0.028}_{-0.026}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00080}$	Age/Gyr	13.771	$13.77^{+0.27}_{-0.28}$
Ω_K	0.0000	$0.0010^{+0.0083}_{-0.0080}$	c_{217}	0.99633	$0.9964^{+0.0026}_{-0.0026}$	z_*	1090.14	$1090.2^{+1.1}_{-1.1}$
Σm_ν	0.002	< 0.322	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	144.98	$145.0^{+1.1}_{-1.2}$
n_s	0.9652	$0.964^{+0.015}_{-0.015}$	A^{kSZ}	0.0	—	$100\theta_*$	1.04148	$1.0417^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.099	$3.091^{+0.052}_{-0.049}$	β_1^1	0.62	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.2}$
α_{SNLS}	1.418	$1.43^{+0.22}_{-0.22}$	Ω_Λ	0.6990	$0.693^{+0.023}_{-0.025}$	r_{drag}	147.72	$147.8^{+1.1}_{-1.2}$
β_{SNLS}	3.247	$3.26^{+0.22}_{-0.21}$	Ω_m	0.3010	$0.306^{+0.022}_{-0.022}$	k_D	0.13994	$0.1399^{+0.0012}_{-0.0012}$
A_{100}^{PS}	143	171^{+100}_{-100}	σ_8	0.843	$0.816^{+0.045}_{-0.054}$	$100\theta_D$	0.16127	$0.16132^{+0.00070}_{-0.00069}$
A_{143}^{PS}	55.1	53^{+30}_{-30}	z_{re}	11.55	$11.3^{+2.2}_{-2.2}$	z_{eq}	3361	3357^{+120}_{-110}
A_{217}^{PS}	118.4	106^{+30}_{-30}	H_0	68.36	$68.1^{+2.0}_{-2.0}$	$100\theta_{\text{eq}}$	0.8204	$0.822^{+0.023}_{-0.022}$
A_{143}^{CIB}	3.23	—	$10^9 A_s$	2.218	$2.20^{+0.12}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07220	$0.0721^{+0.0015}_{-0.0015}$
A_{217}^{CIB}	26.6	29^{+20}_{-10}	$\Omega_m h^2$	0.1407	$0.1416^{+0.0059}_{-0.0057}$			
A_{143}^{tSZ}	7.92	—	$\Omega_m h^3$	0.0962	$0.0964^{+0.0051}_{-0.0050}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.07$; R-1 = 0.02235

χ_{eff}^2 : BAO - DR7: 0.46 6DF: 0.06 DR9: 0.76 CMB - lowLike: 2014.50 lowl: -7.12 CamSpec: 7797.33 SN - SNLS: 423.36

8.8 base_mnu_omegak_planck_lowl_lowLike_SNLS_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02228	$0.02207^{+0.00058}_{-0.00059}$	$r_{143 \times 217}^{\text{PS}}$	0.899	> 0.736	Y_P	0.247801	$0.24771^{+0.00025}_{-0.00026}$
$\Omega_c h^2$	0.1174	$0.1188^{+0.0054}_{-0.0051}$	$r_{143 \times 217}^{\text{CIB}}$	0.55	—	$10^9 A_s e^{-2\tau}$	1.8282	$1.830^{+0.025}_{-0.024}$
$100\theta_{\text{MC}}$	1.04172	$1.0414^{+0.0012}_{-0.0013}$	γ^{CIB}	0.529	$0.54^{+0.23}_{-0.26}$	$\Omega_\nu h^2$	0.00000	< 0.00350
τ	0.0963	$0.092^{+0.026}_{-0.024}$	c_{100}	1.00059	$1.00059^{+0.00076}_{-0.00077}$	Age/Gyr	13.494	$13.34^{+0.43}_{-0.41}$
Ω_K	0.0048	$0.0094^{+0.0097}_{-0.0094}$	c_{217}	0.99644	$0.9964^{+0.0027}_{-0.0027}$	z_*	1089.91	$1090.3^{+1.1}_{-1.1}$
Σm_ν	0.000	< 0.325	$\xi^{\text{tSZ-CIB}}$	0.15	—	r_*	145.16	$145.0^{+1.1}_{-1.2}$
n_s	0.9696	$0.963^{+0.015}_{-0.015}$	A^{kSZ}	0.8	—	$100\theta_*$	1.04183	$1.0416^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.0985	$3.091^{+0.051}_{-0.046}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.63	$1059.2^{+1.2}_{-1.2}$
α_{SNLS}	1.423	$1.43^{+0.21}_{-0.20}$	Ω_Λ	0.7226	$0.720^{+0.030}_{-0.031}$	r_{drag}	147.87	$147.7^{+1.1}_{-1.1}$
β_{SNLS}	3.252	$3.26^{+0.22}_{-0.21}$	Ω_m	0.2726	$0.270^{+0.034}_{-0.033}$	k_D	0.13987	$0.1399^{+0.0012}_{-0.0012}$
A_{100}^{PS}	147	173^{+100}_{-100}	σ_8	0.842	$0.822^{+0.047}_{-0.054}$	$100\theta_D$	0.16120	$0.16141^{+0.00070}_{-0.00066}$
A_{143}^{PS}	63.7	54^{+30}_{-30}	z_{re}	11.55	$11.3^{+2.2}_{-2.1}$	z_{eq}	3339	3366^{+120}_{-120}
A_{217}^{PS}	122.0	106^{+30}_{-30}	H_0	71.59	$72.6^{+4.2}_{-4.2}$	$100\theta_{\text{eq}}$	0.8251	$0.820^{+0.023}_{-0.023}$
A_{143}^{CIB}	0.0	—	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07467	$0.0756^{+0.0033}_{-0.0033}$
A_{217}^{CIB}	24	30^{+20}_{-10}	$\Omega_m h^2$	0.1397	$0.1421^{+0.0060}_{-0.0057}$			
A_{143}^{tSZ}	6.10	—	$\Omega_m h^3$	0.1000	$0.1031^{+0.0074}_{-0.0072}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.21$; R-1 = 0.01815

χ_{eff}^2 : CMB - lowLike: 2014.12 lowl: -7.30 CamSpec: 7800.31 Hubble - HST: 0.88 SN - SNLS: 421.46

8.9 base_mnu_omegak_planck_lowl_lowLike_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02216^{+0.00063}_{-0.00063}$	$r_{143 \times 217}^{\text{CIB}}$	0.344	< 0.804	Y_P	0.247765	$0.24775^{+0.00027}_{-0.00027}$
$\Omega_c h^2$	0.1192	$0.1186^{+0.0056}_{-0.0052}$	γ^{CIB}	0.552	$0.53^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8375	$1.830^{+0.026}_{-0.025}$
$100\theta_{\text{MC}}$	1.04147	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00077}$	$\Omega_\nu h^2$	0.00000	< 0.00440
τ	0.0948	$0.091^{+0.027}_{-0.025}$	c_{217}	0.99647	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.83	$14.15^{+0.82}_{-0.86}$
Ω_K	-0.0014	$-0.008^{+0.022}_{-0.022}$	$\xi^{\text{tSZ-CIB}}$	0.75	—	z_*	1090.16	$1090.2^{+1.3}_{-1.2}$
Σm_ν	0.000	< 0.409	A^{kSZ}	0.7	—	r_*	144.77	$144.9^{+1.1}_{-1.2}$
n_s	0.9659	$0.963^{+0.015}_{-0.015}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04157	$1.0416^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.1006	$3.089^{+0.050}_{-0.047}$	Ω_Λ	0.691	$0.660^{+0.067}_{-0.071}$	z_{drag}	1059.55	$1059.4^{+1.3}_{-1.2}$
A_{100}^{PS}	159	169^{+100}_{-100}	Ω_m	0.310	$0.348^{+0.088}_{-0.084}$	r_{drag}	147.50	$147.7^{+1.1}_{-1.2}$
A_{143}^{PS}	66.0	53^{+30}_{-30}	σ_8	0.845	$0.804^{+0.054}_{-0.066}$	k_D	0.14020	$0.1400^{+0.0012}_{-0.0012}$
A_{217}^{PS}	122.7	106^{+30}_{-30}	z_{re}	11.47	$11.1^{+2.2}_{-2.2}$	$100\theta_D$	0.16122	$0.16128^{+0.00071}_{-0.00069}$
A_{143}^{CIB}	0.0	—	H_0	67.5	64^{+8}_{-8}	z_{eq}	3379	3363^{+120}_{-120}
A_{217}^{CIB}	23	29^{+20}_{-10}	$10^9 A_s$	2.221	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8174	$0.821^{+0.023}_{-0.023}$
A_{143}^{tSZ}	4.52	—	$\Omega_m h^2$	0.1414	$0.1422^{+0.0066}_{-0.0062}$	$r_{\text{drag}}/D_V(0.57)$	0.0715	$0.0693^{+0.0062}_{-0.0059}$
$r_{143 \times 217}^{\text{PS}}$	0.977	> 0.733	$\Omega_m h^3$	0.0954	$0.091^{+0.013}_{-0.012}$			

Best-fit $\chi_{\text{eff}}^2 = 9935.44$; R-1 = 0.01479

χ_{eff}^2 : CMB - lowLike: 2014.52 lowl: -7.34 CamSpec: 7797.32 SN - Union2.1: 130.40

8.10 base_mnu_omegak_planck_lowl_lowLike_Union2_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02213	$0.02211^{+0.00061}_{-0.00059}$	$r_{143 \times 217}^{\text{CIB}}$	0.309	< 0.803	Y_P	0.247737	$0.24773^{+0.00026}_{-0.00026}$
$\Omega_c h^2$	0.1196	$0.1187^{+0.0054}_{-0.0051}$	γ^{CIB}	0.540	$0.53^{+0.25}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8384	$1.830^{+0.025}_{-0.025}$
$100\theta_{\text{MC}}$	1.04142	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00059	$1.00060^{+0.00077}_{-0.00076}$	$\Omega_\nu h^2$	0.00000	< 0.00411
τ	0.0932	$0.092^{+0.027}_{-0.025}$	c_{217}	0.99646	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.759	$13.78^{+0.27}_{-0.28}$
Ω_K	0.0004	$0.0011^{+0.0090}_{-0.0085}$	$\xi^{\text{tSZ-CIB}}$	0.14	—	z_*	1090.29	$1090.2^{+1.2}_{-1.1}$
Σm_ν	0.000	< 0.383	A^{kSZ}	0.5	—	r_*	144.71	$145.0^{+1.1}_{-1.2}$
n_s	0.9637	$0.963^{+0.015}_{-0.015}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04153	$1.0416^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.0979	$3.091^{+0.050}_{-0.046}$	Ω_Λ	0.6943	$0.689^{+0.026}_{-0.026}$	z_{drag}	1059.44	$1059.3^{+1.2}_{-1.2}$
A_{100}^{PS}	159	171^{+100}_{-100}	Ω_m	0.3054	$0.310^{+0.024}_{-0.023}$	r_{drag}	147.45	$147.7^{+1.2}_{-1.1}$
A_{143}^{PS}	68.0	53^{+30}_{-30}	σ_8	0.846	$0.813^{+0.050}_{-0.063}$	k_D	0.14019	$0.1399^{+0.0012}_{-0.0012}$
A_{217}^{PS}	121.0	105^{+30}_{-40}	z_{re}	11.37	$11.3^{+2.1}_{-2.1}$	$100\theta_D$	0.16129	$0.16135^{+0.00069}_{-0.00066}$
A_{143}^{CIB}	0.0	—	H_0	68.14	$67.8^{+2.1}_{-2.0}$	z_{eq}	3388	3364^{+120}_{-110}
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.215	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8156	$0.820^{+0.023}_{-0.023}$
A_{143}^{tSZ}	5.33	—	$\Omega_m h^2$	0.1418	$0.1422^{+0.0062}_{-0.0060}$	$r_{\text{drag}}/D_V(0.57)$	0.07201	$0.0719^{+0.0016}_{-0.0015}$
$r_{143 \times 217}^{\text{PS}}$	0.889	> 0.728	$\Omega_m h^3$	0.09660	$0.0964^{+0.0051}_{-0.0047}$			

Best-fit $\chi_{\text{eff}}^2 = 9936.96$; R-1 = 0.03199

χ_{eff}^2 : BAO - DR7: 0.78 6DF: 0.04 DR9: 0.49 CMB - lowLike: 2014.35 lowl: -6.83 CamSpec: 7797.20 SN - Union2.1: 130.29

8.11 base_mnu_omegak_planck_lowl_lowLike_Union2_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02204^{+0.00061}_{-0.00059}$	$r_{143 \times 217}^{\text{CIB}}$	0.280	< 0.819	Y_P	0.247772	$0.24770^{+0.00026}_{-0.00026}$
$\Omega_c h^2$	0.1184	$0.1193^{+0.0055}_{-0.0053}$	γ^{CIB}	0.538	$0.54^{+0.25}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8317	$1.832^{+0.025}_{-0.024}$
$100\theta_{\text{MC}}$	1.04157	$1.0413^{+0.0013}_{-0.0012}$	c_{100}	1.00057	$1.00060^{+0.00079}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00390
τ	0.0956	$0.091^{+0.026}_{-0.025}$	c_{217}	0.99640	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.471	$13.41^{+0.45}_{-0.42}$
Ω_K	0.0056	$0.0085^{+0.0098}_{-0.010}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.08	$1090.4^{+1.1}_{-1.1}$
Σm_ν	0.000	< 0.363	A^{kSZ}	0.0	—	r_*	144.96	$144.9^{+1.1}_{-1.2}$
n_s	0.9669	$0.961^{+0.015}_{-0.014}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04168	$1.0415^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.0991	$3.091^{+0.049}_{-0.048}$	Ω_Λ	0.7197	$0.712^{+0.031}_{-0.033}$	z_{drag}	1059.51	$1059.2^{+1.2}_{-1.2}$
A_{100}^{PS}	145	175^{+100}_{-100}	Ω_m	0.2748	$0.279^{+0.037}_{-0.034}$	r_{drag}	147.69	$147.6^{+1.1}_{-1.1}$
A_{143}^{PS}	57.2	54^{+30}_{-30}	σ_8	0.846	$0.819^{+0.046}_{-0.059}$	k_D	0.14001	$0.1399^{+0.0012}_{-0.0012}$
A_{217}^{PS}	119.5	105^{+30}_{-40}	z_{re}	11.54	$11.3^{+2.1}_{-2.2}$	$100\theta_D$	0.16124	$0.16142^{+0.00070}_{-0.00067}$
A_{143}^{CIB}	2.39	—	H_0	71.54	$71.6^{+4.4}_{-4.3}$	z_{eq}	3360	3377^{+120}_{-120}
A_{217}^{CIB}	26	30^{+20}_{-10}	$10^9 A_s$	2.218	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8208	$0.818^{+0.023}_{-0.023}$
A_{143}^{tSZ}	7.60	—	$\Omega_m h^2$	0.1406	$0.1427^{+0.0060}_{-0.0061}$	$r_{\text{drag}}/D_V(0.57)$	0.07462	$0.0748^{+0.0034}_{-0.0033}$
$r_{143 \times 217}^{\text{PS}}$	0.892	> 0.728	$\Omega_m h^3$	0.1006	$0.1021^{+0.0074}_{-0.0075}$			

Best-fit $\chi_{\text{eff}}^2 = 9938.26$; R-1 = 0.05903

χ_{eff}^2 : CMB - lowLike: 2014.11 lowl: -6.76 CamSpec: 7799.46 Hubble - HST: 0.92 SN - Union2.1: 129.88

8.12 base_mnu_omegak_planck_lowl_lowLike_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02205^{+0.00060}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.050	< 0.810	Y_P	0.247779	$0.24770^{+0.00026}_{-0.00026}$
$\Omega_c h^2$	0.1184	$0.1192^{+0.0055}_{-0.0052}$	γ^{CIB}	0.538	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8325	$1.832^{+0.026}_{-0.025}$
$100\theta_{\text{MC}}$	1.04156	$1.0413^{+0.0013}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00077}$	$\Omega_\nu h^2$	0.00000	< 0.00421
τ	0.0965	$0.092^{+0.027}_{-0.027}$	c_{217}	0.99635	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.501	$13.41^{+0.46}_{-0.45}$
Ω_K	0.0050	$0.008^{+0.011}_{-0.010}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.06	$1090.4^{+1.2}_{-1.1}$
Σm_ν	0.000	< 0.392	A^{kSZ}	0.0	—	r_*	144.95	$144.9^{+1.2}_{-1.2}$
n_s	0.9674	$0.962^{+0.015}_{-0.015}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04167	$1.0415^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.101	$3.092^{+0.052}_{-0.051}$	Ω_Λ	0.7179	$0.712^{+0.034}_{-0.036}$	z_{drag}	1059.55	$1059.2^{+1.2}_{-1.2}$
A_{100}^{PS}	142	172^{+100}_{-100}	Ω_m	0.2772	$0.280^{+0.039}_{-0.038}$	r_{drag}	147.68	$147.6^{+1.2}_{-1.2}$
A_{143}^{PS}	61.0	54^{+30}_{-30}	σ_8	0.847	$0.819^{+0.051}_{-0.064}$	k_D	0.14004	$0.1399^{+0.0012}_{-0.0012}$
A_{217}^{PS}	123.2	106^{+30}_{-30}	z_{re}	11.61	$11.3^{+2.3}_{-2.2}$	$100\theta_D$	0.16122	$0.16141^{+0.00071}_{-0.00067}$
A_{143}^{CIB}	0.7	—	H_0	71.23	$71.5^{+4.6}_{-4.5}$	z_{eq}	3360	3376^{+120}_{-120}
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.223	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8210	$0.818^{+0.023}_{-0.023}$
A_{143}^{tSZ}	7.05	—	$\Omega_m h^2$	0.1406	$0.1427^{+0.0065}_{-0.0061}$	$r_{\text{drag}}/D_V(0.57)$	0.07438	$0.0748^{+0.0036}_{-0.0034}$
$r_{143 \times 217}^{\text{PS}}$	0.894	> 0.729	$\Omega_m h^3$	0.1002	$0.1020^{+0.0080}_{-0.0075}$			

Best-fit $\chi_{\text{eff}}^2 = 9808.39$; R-1 = 0.00874

χ_{eff}^2 : CMB - lowLike: 2014.20 lowl: -6.86 CamSpec: 7799.21 Hubble - HST: 1.18

8.13 base_mnu_omegak_planck_lowl_lowLike_HST_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02212^{+0.00058}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.375	< 0.813	Y_P	0.247753	$0.24773^{+0.00025}_{-0.00025}$
$\Omega_c h^2$	0.1185	$0.1190^{+0.0055}_{-0.0051}$	γ^{CIB}	0.533	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8324	$1.831^{+0.025}_{-0.024}$
$100\theta_{\text{MC}}$	1.04157	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00078}$	$\Omega_\nu h^2$	0.00002	< 0.00386
τ	0.0959	$0.092^{+0.027}_{-0.025}$	c_{217}	0.99634	$0.9964^{+0.0028}_{-0.0027}$	Age/Gyr	13.765	$13.69^{+0.25}_{-0.27}$
Ω_K	0.0000	$0.0030^{+0.0085}_{-0.0079}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.14	$1090.3^{+1.1}_{-1.1}$
Σm_ν	0.002	< 0.359	A^{kSZ}	0.0	—	r_*	144.98	$144.9^{+1.1}_{-1.2}$
n_s	0.9642	$0.962^{+0.015}_{-0.015}$	β_1^1	0.62	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04168	$1.0416^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.1000	$3.091^{+0.052}_{-0.047}$	Ω_Λ	0.6998	$0.695^{+0.023}_{-0.026}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.1}$
A_{100}^{PS}	150	172^{+100}_{-100}	Ω_m	0.3002	$0.302^{+0.022}_{-0.020}$	r_{drag}	147.72	$147.6^{+1.1}_{-1.1}$
A_{143}^{PS}	54.4	53^{+30}_{-30}	σ_8	0.843	$0.817^{+0.049}_{-0.060}$	k_D	0.13994	$0.1400^{+0.0012}_{-0.0012}$
A_{217}^{PS}	116.9	106^{+30}_{-30}	z_{re}	11.56	$11.3^{+2.3}_{-2.1}$	$100\theta_D$	0.16130	$0.16133^{+0.00068}_{-0.00064}$
A_{143}^{CIB}	4.35	—	H_0	68.44	$68.7^{+1.9}_{-1.8}$	z_{eq}	3360	3373^{+120}_{-110}
A_{217}^{CIB}	27.6	29^{+20}_{-10}	$10^9 A_s$	2.220	$2.20^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8207	$0.819^{+0.023}_{-0.023}$
A_{143}^{tSZ}	7.63	—	$\Omega_m h^2$	0.1406	$0.1424^{+0.0064}_{-0.0058}$	$r_{\text{drag}}/D_V(0.57)$	0.07227	$0.0726^{+0.0015}_{-0.0014}$
$r_{143 \times 217}^{\text{PS}}$	0.888	> 0.735	$\Omega_m h^3$	0.0963	$0.0978^{+0.0051}_{-0.0050}$			

Best-fit $\chi_{\text{eff}}^2 = 9811.72$; R-1 = 0.03108

χ_{eff}^2 : BAO - DR9: 0.85 DR7: 0.39 6DF: 0.07 CMB - lowLike: 2014.50 lowl: -6.87 CamSpec: 7797.11 Hubble - HST: 4.97

9 nnu

9.1 base_nnu_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02209	$0.02238^{+0.00082}_{-0.00078}$	$r_{143 \times 217}^{\text{CIB}}$	0.63	—	$\Omega_m h^3$	0.0967	$0.105^{+0.016}_{-0.016}$
$\Omega_c h^2$	0.1208	$0.126^{+0.011}_{-0.010}$	γ^{CIB}	0.558	$0.54^{+0.23}_{-0.25}$	Y_P	0.2482	$0.2537^{+0.0099}_{-0.0099}$
$100\theta_{\text{MC}}$	1.04123	$1.0408^{+0.0015}_{-0.0014}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8439	$1.861^{+0.047}_{-0.049}$
τ	0.0913	$0.095^{+0.030}_{-0.029}$	c_{217}	0.99643	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.78	$13.38^{+0.74}_{-0.72}$
N_{eff}	3.08	$3.51^{+0.80}_{-0.74}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1090.49	$1090.9^{+1.4}_{-1.3}$
n_s	0.9637	$0.977^{+0.032}_{-0.032}$	A^{kSZ}	1.21	—	r_*	144.3	$140.9^{+6.3}_{-6.2}$
$\ln(10^{10} A_s)$	3.097	$3.114^{+0.070}_{-0.063}$	β_1^1	0.73	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04136	$1.0406^{+0.0018}_{-0.0018}$
A_{100}^{PS}	148	185^{+100}_{-100}	Ω_Λ	0.6835	$0.702^{+0.040}_{-0.043}$	z_{drag}	1059.44	$1060.8^{+2.8}_{-2.8}$
A_{143}^{PS}	63.5	57^{+30}_{-30}	Ω_m	0.3165	$0.298^{+0.043}_{-0.040}$	r_{drag}	147.0	$143.5^{+6.6}_{-6.5}$
A_{217}^{PS}	120.9	105^{+30}_{-40}	σ_8	0.8351	$0.848^{+0.043}_{-0.040}$	k_D	0.14049	$0.1430^{+0.0050}_{-0.0048}$
A_{143}^{CIB}	0.0	—	z_{re}	11.27	$11.6^{+2.6}_{-2.4}$	$100\theta_D$	0.16142	$0.1624^{+0.0017}_{-0.0017}$
A_{217}^{CIB}	25	31^{+20}_{-20}	H_0	67.3	$70.7^{+6.4}_{-6.0}$	z_{eq}	3399	3332^{+150}_{-150}
A_{143}^{tSZ}	6.43	—	$10^9 A_s$	2.213	$2.25^{+0.16}_{-0.15}$	$100\theta_{\text{eq}}$	0.8134	$0.827^{+0.032}_{-0.029}$
$r_{143 \times 217}^{\text{PS}}$	0.923	> 0.725	$\Omega_m h^2$	0.1435	$0.149^{+0.012}_{-0.011}$	$r_{\text{drag}}/D_V(0.57)$	0.07135	$0.0724^{+0.0025}_{-0.0023}$

Best-fit $\chi_{\text{eff}}^2 = 9805.57$; R-1 = 0.00903

χ_{eff}^2 : CMB - lowLike: 2014.38 lowl: -7.05 CamSpec: 7797.73

9.2 base_nnu_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02227	$0.02242^{+0.00080}_{-0.00076}$	$r_{143 \times 217}^{\text{CIB}}$	0.664	< 0.833	$\Omega_m h^3$	0.0972	$0.103^{+0.015}_{-0.015}$
$\Omega_c h^2$	0.1190	$0.123^{+0.010}_{-0.0097}$	γ^{CIB}	0.606	$0.53^{+0.23}_{-0.26}$	Y_P	0.2486	$0.2522^{+0.0097}_{-0.0096}$
$100\theta_{\text{MC}}$	1.04140	$1.0411^{+0.0015}_{-0.0014}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8365	$1.849^{+0.046}_{-0.048}$
τ	0.0932	$0.094^{+0.029}_{-0.028}$	c_{217}	0.99634	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.73	$13.47^{+0.72}_{-0.70}$
N_{eff}	3.11	$3.39^{+0.77}_{-0.70}$	$\xi^{\text{tSZ-CIB}}$	0.20	—	z_*	1090.12	$1090.5^{+1.2}_{-1.2}$
n_s	0.9693	$0.976^{+0.031}_{-0.030}$	A^{kSZ}	0.9	—	r_*	144.5	$142.1^{+6.2}_{-6.2}$
$\ln(10^{10} A_s)$	3.097	$3.105^{+0.066}_{-0.065}$	β_1^1	0.70	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04149	$1.0410^{+0.0018}_{-0.0018}$
A_{100}^{PS}	159	178^{+100}_{-100}	Ω_Λ	0.6975	$0.705^{+0.036}_{-0.037}$	z_{drag}	1059.74	$1060.6^{+2.7}_{-2.8}$
A_{143}^{PS}	63.9	54^{+30}_{-30}	Ω_m	0.3025	$0.295^{+0.037}_{-0.036}$	r_{drag}	147.2	$144.7^{+6.5}_{-6.4}$
A_{217}^{PS}	115.0	103^{+30}_{-40}	σ_8	0.8299	$0.838^{+0.039}_{-0.038}$	k_D	0.14039	$0.1421^{+0.0048}_{-0.0046}$
A_{143}^{CIB}	0.0	—	z_{re}	11.33	$11.4^{+2.5}_{-2.3}$	$100\theta_D$	0.16134	$0.1620^{+0.0017}_{-0.0016}$
A_{217}^{CIB}	27	31^{+20}_{-20}	H_0	68.5	$70.4^{+6.0}_{-5.7}$	z_{eq}	3349	3319^{+130}_{-140}
A_{143}^{tSZ}	5.92	—	$10^9 A_s$	2.213	$2.23^{+0.15}_{-0.15}$	$100\theta_{\text{eq}}$	0.8231	$0.829^{+0.028}_{-0.026}$
$r_{143 \times 217}^{\text{PS}}$	0.943	> 0.714	$\Omega_m h^2$	0.1419	$0.146^{+0.011}_{-0.010}$	$r_{\text{drag}}/D_V(0.57)$	0.07212	$0.0726^{+0.0022}_{-0.0021}$

Best-fit $\chi_{\text{eff}}^2 = 9815.89$; R-1 = 0.00980

χ_{eff}^2 : CMB - lowLike: 2014.32 lensing: 9.77 lowl: -7.89 CamSpec: 7799.48

9.3 base_nnu_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02234^{+0.00079}_{-0.00076}$	β_1^1	0.47	$0.5^{+1.1}_{-1.1}$	σ_8	0.8366	$0.842^{+0.040}_{-0.038}$
$\Omega_c h^2$	0.1224	$0.1236^{+0.0098}_{-0.0095}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.5^{+1.2}_{-1.1}$	z_{re}	11.35	$11.6^{+2.5}_{-2.4}$
$100\theta_{\text{MC}}$	1.04102	$1.0410^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	68.6	$69.7^{+5.8}_{-5.3}$
τ	0.0921	$0.095^{+0.030}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	7.38	$7.53^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.24^{+0.15}_{-0.15}$
N_{eff}	3.23	$3.36^{+0.68}_{-0.64}$	$A_{150}^{\text{PS, SPT}}$	9.91	$9.98^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1452	$0.147^{+0.010}_{-0.0098}$
n_s	0.9658	$0.971^{+0.030}_{-0.029}$	$A_{220}^{\text{PS, SPT}}$	73.6	74^{+9}_{-9}	$\Omega_m h^3$	0.0997	$0.102^{+0.014}_{-0.013}$
$\ln(10^{10} A_s)$	3.100	$3.108^{+0.068}_{-0.062}$	$r_{95 \times 150}^{\text{PS}}$	0.797	> 0.684	Y_{P}	0.2503	$0.2519^{+0.0087}_{-0.0088}$
A_{100}^{PS}	213	220^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.562	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8460	$1.851^{+0.044}_{-0.047}$
A_{143}^{PS}	75.2	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9182	$0.938^{+0.046}_{-0.045}$	Age/Gyr	13.63	$13.50^{+0.67}_{-0.65}$
A_{217}^{PS}	62.5	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.44^{+0.36}_{-0.39}$	z_*	1090.60	$1090.7^{+1.2}_{-1.2}$
A_{143}^{CIB}	3.05	$3.23^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.39}_{-0.39}$	r_*	143.0	$142.1^{+5.8}_{-5.6}$
A_{217}^{CIB}	50.5	49^{+10}_{-9}	y_{148}^{ACTs}	0.9905	$0.991^{+0.015}_{-0.014}$	$100\theta_*$	1.04105	$1.0409^{+0.0017}_{-0.0017}$
A_{143}^{tSZ}	3.71	< 4.92	y_{217}^{ACTs}	1.0025	$1.004^{+0.027}_{-0.026}$	z_{drag}	1060.01	$1060.4^{+2.6}_{-2.6}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9867	$0.987^{+0.015}_{-0.014}$	r_{drag}	145.7	$144.7^{+6.0}_{-5.8}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9610	$0.962^{+0.021}_{-0.020}$	k_{D}	0.14141	$0.1421^{+0.0044}_{-0.0044}$
γ^{CIB}	0.638	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9809	$0.980^{+0.040}_{-0.038}$	$100\theta_{\text{D}}$	0.16172	$0.1620^{+0.0015}_{-0.0014}$
c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00078}$	y_{150}^{SPT}	0.9832	$0.984^{+0.020}_{-0.019}$	z_{eq}	3370	3348^{+150}_{-140}
c_{217}	0.99740	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0167	$1.022^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8190	$0.824^{+0.029}_{-0.028}$
$\xi^{\text{tSZ-CIB}}$	0.10	—	Ω_{Λ}	0.6917	$0.697^{+0.038}_{-0.042}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07177	$0.0721^{+0.0023}_{-0.0022}$
A^{kSZ}	3.57	$5.70^{+4.1}_{-4.2}$	Ω_{m}	0.3083	$0.303^{+0.042}_{-0.038}$			

Best-fit $\chi_{\text{eff}}^2 = 10508.39$; R-1 = 0.00608

χ_{eff}^2 : CMB - lowLike: 2014.34 lowl: -7.20 CamSpec: 7807.92 highL: 693.16

9.4 base_nnu_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02235	$0.02238^{+0.00078}_{-0.00076}$	β_1^1	0.43	$0.4^{+1.1}_{-1.1}$	σ_8	0.8339	$0.834^{+0.037}_{-0.035}$
$\Omega_c h^2$	0.1210	$0.1215^{+0.0093}_{-0.0089}$	$A_{148}^{\text{PS, ACT}}$	10.39	$10.6^{+1.2}_{-1.1}$	z_{re}	11.42	$11.4^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04123	$1.0412^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.0	77^{+9}_{-9}	H_0	69.3	$69.7^{+5.5}_{-5.1}$
τ	0.0938	$0.094^{+0.028}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.47	$7.78^{+3.0}_{-2.8}$	$10^9 A_s$	2.221	$2.22^{+0.14}_{-0.14}$
N_{eff}	3.23	$3.28^{+0.67}_{-0.64}$	$A_{150}^{\text{PS, SPT}}$	9.89	$10.2^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1440	$0.1445^{+0.0097}_{-0.0093}$
n_s	0.9693	$0.971^{+0.029}_{-0.028}$	$A_{220}^{\text{PS, SPT}}$	72.9	74^{+9}_{-9}	$\Omega_m h^3$	0.0998	$0.101^{+0.014}_{-0.013}$
$\ln(10^{10} A_s)$	3.101	$3.101^{+0.064}_{-0.060}$	$r_{95 \times 150}^{\text{PS}}$	0.798	> 0.688	Y_{P}	0.2503	$0.2509^{+0.0087}_{-0.0088}$
A_{100}^{PS}	209	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.546	$0.59^{+0.23}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8412	$1.842^{+0.043}_{-0.045}$
A_{143}^{PS}	74.6	75^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9081	$0.935^{+0.047}_{-0.045}$	Age/Gyr	13.60	$13.56^{+0.66}_{-0.64}$
A_{217}^{PS}	61.2	61^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.421	$0.44^{+0.36}_{-0.40}$	z_*	1090.32	$1090.4^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.22	$3.23^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.84^{+0.39}_{-0.39}$	r_*	143.3	$142.9^{+5.7}_{-5.5}$
A_{217}^{CIB}	52.5	50^{+10}_{-10}	y_{148}^{ACTs}	0.9908	$0.991^{+0.015}_{-0.015}$	$100\theta_*$	1.04123	$1.0412^{+0.0017}_{-0.0016}$
A_{143}^{tSZ}	4.56	< 4.87	y_{217}^{ACTs}	1.0023	$1.005^{+0.027}_{-0.026}$	z_{drag}	1060.20	$1060.3^{+2.6}_{-2.6}$
$r_{143 \times 217}^{\text{PS}}$	0.825	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9870	$0.988^{+0.015}_{-0.014}$	r_{drag}	145.9	$145.6^{+5.9}_{-5.7}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9608	$0.963^{+0.021}_{-0.020}$	k_{D}	0.14129	$0.1415^{+0.0044}_{-0.0043}$
γ^{CIB}	0.658	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9824	$0.983^{+0.041}_{-0.038}$	$100\theta_{\text{D}}$	0.16162	$0.1617^{+0.0014}_{-0.0014}$
c_{100}	1.00060	$1.00059^{+0.00079}_{-0.00077}$	y_{150}^{SPT}	0.9839	$0.987^{+0.020}_{-0.019}$	z_{eq}	3341	3332^{+130}_{-130}
c_{217}	0.99731	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0160	$1.024^{+0.048}_{-0.047}$	$100\theta_{\text{eq}}$	0.8247	$0.827^{+0.026}_{-0.025}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_{Λ}	0.6999	$0.702^{+0.034}_{-0.036}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07224	$0.0724^{+0.0021}_{-0.0019}$
A^{kSZ}	1.33	$5.02^{+3.6}_{-4.3}$	Ω_{m}	0.3001	$0.298^{+0.036}_{-0.034}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.02$; R-1 = 0.01538

χ_{eff}^2 : CMB - lowLike: 2014.33 lensing: 9.80 lowl: -7.72 CamSpec: 7808.44 highL: 692.07

9.5 base_nnu_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02248	$0.02262^{+0.00061}_{-0.00059}$	β_1^1	0.48	$0.5^{+1.1}_{-1.1}$	σ_8	0.8377	$0.851^{+0.037}_{-0.035}$
$\Omega_c h^2$	0.1237	$0.1258^{+0.0091}_{-0.0087}$	$A_{148}^{\text{PS, ACT}}$	10.47	$10.5^{+1.2}_{-1.1}$	z_{re}	11.26	$12.1^{+2.4}_{-2.3}$
$100\theta_{\text{MC}}$	1.04099	$1.0408^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.7	$76.6^{+8.4}_{-8.9}$	H_0	71.04	$72.1^{+3.7}_{-3.7}$
τ	0.0912	$0.101^{+0.029}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.22	$7.48^{+2.9}_{-2.8}$	$10^9 A_s$	2.224	$2.28^{+0.14}_{-0.13}$
N_{eff}	3.466	$3.62^{+0.50}_{-0.48}$	$A_{150}^{\text{PS, SPT}}$	9.92	$9.93^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1468	$0.1491^{+0.0093}_{-0.0088}$
n_s	0.9775	$0.983^{+0.021}_{-0.020}$	$A_{220}^{\text{PS, SPT}}$	73.8	74^{+9}_{-9}	$\Omega_m h^3$	0.1043	$0.108^{+0.010}_{-0.0098}$
$\ln(10^{10} A_s)$	3.102	$3.125^{+0.061}_{-0.057}$	$r_{95 \times 150}^{\text{PS}}$	0.814	> 0.683	Y_{P}	0.2534	$0.2553^{+0.0062}_{-0.0063}$
A_{100}^{PS}	221	226^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.589	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8527	$1.861^{+0.039}_{-0.040}$
A_{143}^{PS}	78.2	78^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9222	$0.938^{+0.046}_{-0.044}$	Age/Gyr	13.379	$13.24^{+0.45}_{-0.44}$
A_{217}^{PS}	64.4	64^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.44^{+0.36}_{-0.39}$	z_*	1090.61	$1090.8^{+1.2}_{-1.2}$
A_{143}^{CIB}	3.11	$3.21^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.85^{+0.39}_{-0.39}$	r_*	141.38	$140.1^{+4.5}_{-4.3}$
A_{217}^{CIB}	49.8	49^{+10}_{-9}	y_{148}^{ACTs}	0.9893	$0.990^{+0.014}_{-0.014}$	$100\theta_*$	1.04084	$1.0406^{+0.0016}_{-0.0016}$
A_{143}^{tSZ}	3.34	< 4.80	y_{217}^{ACTs}	1.0016	$1.003^{+0.027}_{-0.026}$	z_{drag}	1060.89	$1061.4^{+1.9}_{-1.9}$
$r_{143 \times 217}^{\text{PS}}$	0.823	$0.83^{+0.13}_{-0.12}$	y_{148}^{ACTe}	0.9854	$0.986^{+0.015}_{-0.014}$	r_{drag}	143.96	$142.7^{+4.6}_{-4.4}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9602	$0.961^{+0.021}_{-0.020}$	k_{D}	0.14262	$0.1437^{+0.0035}_{-0.0035}$
γ^{CIB}	0.625	$0.62^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9783	$0.978^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16217	$0.1624^{+0.0012}_{-0.0012}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	y_{150}^{SPT}	0.9814	$0.983^{+0.019}_{-0.019}$	z_{eq}	3307	3294^{+110}_{-110}
c_{217}	0.99738	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0160	$1.020^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8315	$0.834^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.18	—	Ω_{Λ}	0.7090	$0.713^{+0.026}_{-0.029}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07275	$0.0730^{+0.0017}_{-0.0017}$
A^{kSZ}	4.42	> 2.02	Ω_{m}	0.2910	$0.287^{+0.029}_{-0.026}$			

Best-fit $\chi_{\text{eff}}^2 = 10510.34$; R-1 = 0.01208

χ_{eff}^2 : CMB - lowLike: 2014.14 lowl: -8.60 CamSpec: 7808.99 highL: 694.25 Hubble - HST: 1.34

9.6 base_nnu_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02238	$0.02256^{+0.00074}_{-0.00073}$	β_1^1	0.48	$0.5^{+1.1}_{-1.1}$	σ_8	0.8352	$0.846^{+0.042}_{-0.038}$
$\Omega_c h^2$	0.1223	$0.1240^{+0.0099}_{-0.0095}$	$A_{148}^{\text{PS, ACT}}$	10.46	$10.5^{+1.2}_{-1.1}$	z_{re}	11.35	$12.0^{+2.5}_{-2.4}$
$100\theta_{\text{MC}}$	1.04102	$1.0410^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.8	77^{+9}_{-9}	H_0	69.9	$71.5^{+5.5}_{-5.1}$
τ	0.0925	$0.100^{+0.030}_{-0.029}$	$A_{95}^{\text{PS, SPT}}$	7.35	$7.52^{+2.9}_{-2.8}$	$10^9 A_s$	2.222	$2.27^{+0.15}_{-0.15}$
N_{eff}	3.33	$3.51^{+0.67}_{-0.63}$	$A_{150}^{\text{PS, SPT}}$	9.94	$9.97^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1453	$0.147^{+0.010}_{-0.0098}$
n_s	0.9715	$0.980^{+0.029}_{-0.028}$	$A_{220}^{\text{PS, SPT}}$	73.9	74^{+9}_{-9}	$\Omega_m h^3$	0.1015	$0.105^{+0.014}_{-0.013}$
$\ln(10^{10} A_s)$	3.101	$3.120^{+0.068}_{-0.062}$	$r_{95 \times 150}^{\text{PS}}$	0.803	> 0.683	Y_{P}	0.2515	$0.2539^{+0.0085}_{-0.0085}$
A_{100}^{PS}	216	223^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.573	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8466	$1.853^{+0.043}_{-0.045}$
A_{143}^{PS}	76.0	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9206	$0.938^{+0.046}_{-0.045}$	Age/Gyr	13.52	$13.34^{+0.63}_{-0.62}$
A_{217}^{PS}	62.9	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.44^{+0.36}_{-0.39}$	z_*	1090.47	$1090.6^{+1.2}_{-1.2}$
A_{143}^{CIB}	3.05	$3.22^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.39}_{-0.39}$	r_*	142.5	$141.1^{+5.6}_{-5.5}$
A_{217}^{CIB}	50.0	49^{+10}_{-9}	y_{148}^{ACTs}	0.9903	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04097	$1.0408^{+0.0017}_{-0.0016}$
A_{143}^{tSZ}	3.46	< 4.87	y_{217}^{ACTs}	1.0026	$1.003^{+0.027}_{-0.026}$	z_{drag}	1060.43	$1061.1^{+2.5}_{-2.5}$
$r_{143 \times 217}^{\text{PS}}$	0.818	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9865	$0.986^{+0.015}_{-0.014}$	r_{drag}	145.1	$143.7^{+5.8}_{-5.7}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9612	$0.962^{+0.021}_{-0.020}$	k_{D}	0.14183	$0.1429^{+0.0044}_{-0.0043}$
γ^{CIB}	0.631	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9802	$0.980^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16185	$0.1622^{+0.0014}_{-0.0014}$
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00079}$	y_{150}^{SPT}	0.9831	$0.984^{+0.020}_{-0.020}$	z_{eq}	3331	3298^{+130}_{-130}
c_{217}	0.99742	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0172	$1.021^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8266	$0.834^{+0.027}_{-0.026}$
$\xi^{\text{tSZ-CIB}}$	0.14	—	Ω_{Λ}	0.7024	$0.712^{+0.033}_{-0.036}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07236	$0.0729^{+0.0022}_{-0.0020}$
A^{kSZ}	4.09	$5.83^{+4.1}_{-4.1}$	Ω_{m}	0.2976	$0.288^{+0.036}_{-0.033}$			

Best-fit $\chi_{\text{eff}}^2 = 10936.94$; R-1 = 0.01078

χ_{eff}^2 : CMB - lowLike: 2014.24 lowl: -7.98 CamSpec: 7808.70 highL: 693.44 SN - SNLS: 428.34

9.7 base_nnu_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02240^{+0.00077}_{-0.00073}$	β_1	0.55	$0.5^{+1.1}_{-1.1}$	σ_8	0.8363	$0.843^{+0.041}_{-0.038}$
$\Omega_c h^2$	0.1217	$0.1237^{+0.0099}_{-0.0095}$	$A_{148}^{\text{PS, ACT}}$	10.17	$10.5^{+1.2}_{-1.1}$	z_{re}	11.43	$11.7^{+2.4}_{-2.3}$
$100\theta_{\text{MC}}$	1.04117	$1.0410^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	75.5	77^{+9}_{-9}	H_0	68.2	$70.2^{+5.5}_{-5.1}$
τ	0.0931	$0.096^{+0.029}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	6.94	$7.53^{+2.9}_{-2.8}$	$10^9 A_s$	2.220	$2.25^{+0.15}_{-0.14}$
N_{eff}	3.17	$3.40^{+0.67}_{-0.63}$	$A_{150}^{\text{PS, SPT}}$	9.66	$9.98^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1446	$0.147^{+0.010}_{-0.0098}$
n_s	0.9638	$0.974^{+0.029}_{-0.028}$	$A_{220}^{\text{PS, SPT}}$	72.4	74^{+9}_{-9}	$\Omega_m h^3$	0.0985	$0.103^{+0.014}_{-0.013}$
$\ln(10^{10} A_s)$	3.100	$3.112^{+0.067}_{-0.061}$	$r_{95 \times 150}^{\text{PS}}$	0.821	> 0.684	Y_{P}	0.2495	$0.2525^{+0.0085}_{-0.0085}$
A_{100}^{PS}	213	221^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.578	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8431	$1.852^{+0.044}_{-0.046}$
A_{143}^{PS}	74.4	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9113	$0.938^{+0.046}_{-0.045}$	Age/Gyr	13.69	$13.46^{+0.64}_{-0.62}$
A_{217}^{PS}	62.5	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.446	$0.44^{+0.36}_{-0.39}$	z_*	1090.56	$1090.7^{+1.2}_{-1.2}$
A_{143}^{CIB}	3.49	$3.22^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.870	$0.85^{+0.39}_{-0.39}$	r_*	143.5	$141.8^{+5.6}_{-5.5}$
A_{217}^{CIB}	52.8	49^{+10}_{-9}	y_{148}^{ACTs}	0.9905	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04123	$1.0409^{+0.0017}_{-0.0017}$
A_{143}^{tSZ}	5.21	< 4.90	y_{217}^{ACTs}	1.0006	$1.003^{+0.027}_{-0.026}$	z_{drag}	1059.78	$1060.6^{+2.6}_{-2.5}$
$r_{143 \times 217}^{\text{PS}}$	0.827	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9869	$0.987^{+0.015}_{-0.014}$	r_{drag}	146.2	$144.4^{+5.9}_{-5.7}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9589	$0.962^{+0.021}_{-0.020}$	k_{D}	0.14105	$0.1424^{+0.0044}_{-0.0043}$
γ^{CIB}	0.659	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9843	$0.980^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16162	$0.1621^{+0.0014}_{-0.0014}$
c_{100}	1.00058	$1.00059^{+0.00079}_{-0.00078}$	y_{150}^{SPT}	0.9832	$0.984^{+0.020}_{-0.019}$	z_{eq}	3381	3333^{+140}_{-130}
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0153	$1.021^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8169	$0.826^{+0.027}_{-0.026}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_{Λ}	0.6888	$0.702^{+0.035}_{-0.038}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07162	$0.0724^{+0.0022}_{-0.0020}$
A^{kSZ}	1.07	$5.75^{+4.1}_{-4.2}$	Ω_{m}	0.3112	$0.298^{+0.038}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10639.47$; R-1 = 0.00705

χ_{eff}^2 : CMB - lowLike: 2014.43 lowl: -6.88 CamSpec: 7807.29 highL: 693.97 SN - Union2.1: 130.44

9.8 base_nnu_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02207	$0.0237^{+0.0016}_{-0.0017}$	$r_{143 \times 217}^{\text{CIB}}$	0.736	< 0.830	$\Omega_m h^3$	0.0964	$0.127^{+0.028}_{-0.029}$
$\Omega_c h^2$	0.1205	$0.131^{+0.012}_{-0.012}$	γ^{CIB}	0.575	$0.54^{+0.23}_{-0.26}$	Y_P	0.2480	$0.266^{+0.015}_{-0.016}$
$100\theta_{\text{MC}}$	1.04122	$1.0407^{+0.0014}_{-0.0013}$	c_{100}	1.00060	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8422	$1.874^{+0.042}_{-0.044}$
τ	0.092	$0.22^{+0.12}_{-0.13}$	c_{217}	0.99649	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.79	$12.4^{+1.2}_{-1.1}$
N_{eff}	3.07	$4.53^{+1.3}_{-1.4}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.48	$1090.6^{+1.4}_{-1.3}$
n_s	0.963	> 0.975	A^{kSZ}	0.6	—	r_*	144.4	$134.4^{+9.1}_{-8.6}$
$\ln(10^{10} A_s)$	3.098	$3.36^{+0.23}_{-0.27}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04136	$1.0399^{+0.0019}_{-0.0017}$
A_{100}^{PS}	158	179^{+100}_{-100}	Ω_Λ	0.684	$0.764^{+0.062}_{-0.071}$	z_{drag}	1059.4	$1064.9^{+4.9}_{-5.1}$
A_{143}^{PS}	68.1	58^{+30}_{-30}	Ω_m	0.316	$0.236^{+0.071}_{-0.062}$	r_{drag}	147.2	$136.6^{+9.7}_{-9.0}$
A_{217}^{PS}	117.7	107^{+30}_{-40}	σ_8	0.835	$0.97^{+0.13}_{-0.13}$	k_D	0.1404	$0.1484^{+0.0074}_{-0.0077}$
A_{143}^{CIB}	0.0	—	z_{re}	11.3	20^{+7}_{-9}	$100\theta_D$	0.16142	$0.1639^{+0.0022}_{-0.0023}$
A_{217}^{CIB}	27	30^{+20}_{-20}	H_0	67.3	82^{+10}_{-10}	z_{eq}	3396	3090^{+290}_{-260}
A_{143}^{tSZ}	5.67	—	$10^9 A_s$	2.22	$2.92^{+0.69}_{-0.73}$	$100\theta_{\text{eq}}$	0.814	$0.881^{+0.063}_{-0.065}$
$r_{143 \times 217}^{\text{PS}}$	0.884	> 0.736	$\Omega_m h^2$	0.1432	$0.155^{+0.013}_{-0.013}$	$r_{\text{drag}}/D_V(0.57)$	0.0714	$0.0768^{+0.0052}_{-0.0054}$

Best-fit $\chi_{\text{eff}}^2 = 7791.30$; R-1 = 0.00644

χ_{eff}^2 : CMB - lowl: -6.98 CamSpec: 7797.89

9.9 base_nnu_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.0230^{+0.0016}_{-0.0014}$	$r_{143 \times 217}^{\text{CIB}}$	0.626	< 0.854	$\Omega_m h^3$	0.0964	$0.110^{+0.026}_{-0.023}$
$\Omega_c h^2$	0.1186	$0.124^{+0.011}_{-0.011}$	γ^{CIB}	0.556	$0.53^{+0.24}_{-0.26}$	Y_P	0.2480	$0.257^{+0.016}_{-0.014}$
$100\theta_{\text{MC}}$	1.04146	$1.0411^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8347	$1.851^{+0.042}_{-0.047}$
τ	0.094	$0.14^{+0.11}_{-0.10}$	c_{217}	0.99641	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.77	$13.1^{+1.0}_{-1.2}$
N_{eff}	3.07	$3.76^{+1.3}_{-1.1}$	$\xi^{\text{tSZ-CIB}}$	0.45	—	z_*	1090.10	$1090.3^{+1.4}_{-1.3}$
n_s	0.968	$0.9998^{+0.067}_{-0.057}$	A^{kSZ}	0.9	—	r_*	144.8	$139.9^{+7.7}_{-8.6}$
$\ln(10^{10} A_s)$	3.097	$3.20^{+0.23}_{-0.20}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04159	$1.0407^{+0.0018}_{-0.0018}$
A_{100}^{PS}	168	177^{+100}_{-100}	Ω_Λ	0.695	$0.733^{+0.071}_{-0.069}$	z_{drag}	1059.59	$1062.1^{+5.0}_{-4.4}$
A_{143}^{PS}	67.5	54^{+30}_{-30}	Ω_m	0.305	$0.267^{+0.069}_{-0.071}$	r_{drag}	147.5	$142.3^{+8.2}_{-9.1}$
A_{217}^{PS}	118.7	103^{+30}_{-40}	σ_8	0.830	$0.876^{+0.10}_{-0.091}$	k_D	0.1401	$0.1439^{+0.0070}_{-0.0065}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$14.7^{+8.0}_{-7.9}$	$100\theta_D$	0.16127	$0.1626^{+0.0022}_{-0.0020}$
A_{217}^{CIB}	25	31^{+20}_{-20}	H_0	68.1	75^{+10}_{-10}	z_{eq}	3357	3208^{+260}_{-300}
A_{143}^{tSZ}	4.39	—	$10^9 A_s$	2.21	$2.46^{+0.57}_{-0.51}$	$100\theta_{\text{eq}}$	0.821	$0.854^{+0.065}_{-0.059}$
$r_{143 \times 217}^{\text{PS}}$	0.933	> 0.721	$\Omega_m h^2$	0.1415	$0.147^{+0.012}_{-0.012}$	$r_{\text{drag}}/D_V(0.57)$	0.0720	$0.0745^{+0.0053}_{-0.0047}$

Best-fit $\chi_{\text{eff}}^2 = 7801.62$; R-1 = 0.04066

χ_{eff}^2 : CMB - lensing: 9.90 lowl: -7.69 CamSpec: 7798.90

9.10 base_nnu_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02219	$0.02237^{+0.00066}_{-0.00068}$	$r_{143 \times 217}^{\text{CIB}}$	0.373	< 0.838	$\Omega_m h^3$	0.0966	$0.104^{+0.013}_{-0.012}$
$\Omega_c h^2$	0.1192	$0.125^{+0.010}_{-0.010}$	γ^{CIB}	0.551	$0.54^{+0.24}_{-0.26}$	Y_P	0.2482	$0.2531^{+0.0078}_{-0.0078}$
$100\theta_{\text{MC}}$	1.04142	$1.0408^{+0.0015}_{-0.0014}$	c_{100}	1.00059	$1.00057^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8367	$1.857^{+0.046}_{-0.048}$
τ	0.094	$0.115^{+0.074}_{-0.077}$	c_{217}	0.99639	$0.9965^{+0.0028}_{-0.0027}$	Age/Gyr	13.76	$13.42^{+0.57}_{-0.55}$
N_{eff}	3.08	$3.46^{+0.62}_{-0.59}$	$\xi^{\text{tSZ-CIB}}$	0.35	—	z_*	1090.21	$1090.8^{+1.3}_{-1.2}$
n_s	0.9671	$0.978^{+0.024}_{-0.023}$	A^{kSZ}	1.04	—	r_*	144.6	$141.3^{+5.6}_{-5.4}$
$\ln(10^{10} A_s)$	3.098	$3.15^{+0.16}_{-0.15}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04154	$1.0407^{+0.0018}_{-0.0017}$
A_{100}^{PS}	157	178^{+100}_{-100}	Ω_Λ	0.6931	$0.701^{+0.023}_{-0.025}$	z_{drag}	1059.55	$1060.7^{+2.3}_{-2.4}$
A_{143}^{PS}	65.7	56^{+30}_{-30}	Ω_m	0.3069	$0.299^{+0.025}_{-0.023}$	r_{drag}	147.3	$143.9^{+5.8}_{-5.6}$
A_{217}^{PS}	121.7	107^{+30}_{-40}	σ_8	0.831	$0.864^{+0.073}_{-0.073}$	k_D	0.14023	$0.1427^{+0.0044}_{-0.0044}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$13.1^{+6.1}_{-6.5}$	$100\theta_D$	0.16134	$0.1622^{+0.0015}_{-0.0013}$
A_{217}^{CIB}	24	30^{+20}_{-10}	H_0	68.02	$70.4^{+4.1}_{-3.8}$	z_{eq}	3364	3334^{+92}_{-86}
A_{143}^{tSZ}	5.48	—	$10^9 A_s$	2.216	$2.34^{+0.35}_{-0.37}$	$100\theta_{\text{eq}}$	0.8201	$0.826^{+0.017}_{-0.017}$
$r_{143 \times 217}^{\text{PS}}$	0.931	> 0.741	$\Omega_m h^2$	0.1420	$0.148^{+0.011}_{-0.010}$	$r_{\text{drag}}/D_V(0.57)$	0.07189	$0.0723^{+0.0014}_{-0.0014}$

Best-fit $\chi_{\text{eff}}^2 = 7792.81$; R-1 = 0.04860

χ_{eff}^2 : BAO - DR7: 0.98 6DF: 0.03 DR9: 0.36 CMB - lowl: -7.60 CamSpec: 7798.48

9.11 base_nnu_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02252	$0.02290^{+0.00072}_{-0.00071}$	$r_{143 \times 217}^{\text{CIB}}$	0.67	—	$\Omega_m h^3$	0.1113	$0.112^{+0.012}_{-0.011}$
$\Omega_c h^2$	0.1296	$0.127^{+0.010}_{-0.0093}$	γ^{CIB}	0.512	$0.53^{+0.23}_{-0.26}$	Y_P	0.2578	$0.2580^{+0.0065}_{-0.0069}$
$100\theta_{\text{MC}}$	1.04042	$1.0408^{+0.0015}_{-0.0014}$	c_{100}	1.00058	$1.00058^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8740	$1.865^{+0.041}_{-0.040}$
τ	0.082	$0.157^{+0.076}_{-0.080}$	c_{217}	0.99641	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.083	$13.02^{+0.50}_{-0.46}$
N_{eff}	3.82	$3.83^{+0.54}_{-0.54}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.40	$1090.7^{+1.4}_{-1.3}$
n_s	0.9835	$1.000^{+0.026}_{-0.026}$	A^{kSZ}	10.0	—	r_*	138.34	$138.7^{+4.6}_{-4.4}$
$\ln(10^{10} A_s)$	3.095	$3.24^{+0.15}_{-0.16}$	β_1^1	0.60	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04004	$1.0404^{+0.0016}_{-0.0016}$
A_{100}^{PS}	163	178^{+100}_{-100}	Ω_Λ	0.7124	$0.728^{+0.033}_{-0.033}$	z_{drag}	1061.65	$1062.3^{+2.1}_{-2.1}$
A_{143}^{PS}	25	56^{+30}_{-30}	Ω_m	0.2876	$0.272^{+0.033}_{-0.033}$	r_{drag}	140.88	$141.2^{+4.8}_{-4.6}$
A_{217}^{PS}	88.6	107^{+30}_{-40}	σ_8	0.845	$0.904^{+0.068}_{-0.072}$	k_D	0.14477	$0.1448^{+0.0036}_{-0.0037}$
A_{143}^{CIB}	14.1	—	z_{re}	10.6	$16.3^{+5.4}_{-5.9}$	$100\theta_D$	0.16315	$0.1628^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	37.4	30^{+20}_{-10}	H_0	72.88	$74.4^{+4.5}_{-4.4}$	z_{eq}	3291	3237^{+130}_{-120}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.208	$2.56^{+0.37}_{-0.39}$	$100\theta_{\text{eq}}$	0.8344	$0.847^{+0.027}_{-0.026}$
$r_{143 \times 217}^{\text{PS}}$	0.882	> 0.733	$\Omega_m h^2$	0.1528	$0.1503^{+0.0099}_{-0.0094}$	$r_{\text{drag}}/D_V(0.57)$	0.07290	$0.0739^{+0.0022}_{-0.0021}$

Best-fit $\chi_{\text{eff}}^2 = 7792.15$; R-1 = 0.01315

χ_{eff}^2 : CMB - lowl: -9.05 CamSpec: 7800.16 Hubble - HST: 0.15

9.12 base_nnu_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02254	$0.0239^{+0.0013}_{-0.0014}$	$r_{143 \times 217}^{\text{CIB}}$	0.63	—	$\Omega_m h^3$	0.1095	$0.130^{+0.026}_{-0.025}$
$\Omega_c h^2$	0.1274	$0.131^{+0.012}_{-0.012}$	γ^{CIB}	0.511	$0.54^{+0.23}_{-0.25}$	Y_P	0.2567	$0.268^{+0.013}_{-0.014}$
$100\theta_{\text{MC}}$	1.04066	$1.0407^{+0.0014}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8661	$1.875^{+0.038}_{-0.041}$
τ	0.086	$0.229^{+0.098}_{-0.10}$	c_{217}	0.99639	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.15	$12.29^{+0.99}_{-0.97}$
N_{eff}	3.73	$4.65^{+1.1}_{-1.2}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.10	$1090.6^{+1.3}_{-1.3}$
n_s	0.984	> 0.994	A^{kSZ}	10.0	—	r_*	139.2	$133.7^{+7.8}_{-7.6}$
$\ln(10^{10} A_s)$	3.099	$3.39^{+0.20}_{-0.21}$	β_1^1	0.63	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04033	$1.0398^{+0.0018}_{-0.0017}$
A_{100}^{PS}	149	179^{+100}_{-100}	Ω_Λ	0.715	$0.771^{+0.049}_{-0.053}$	z_{drag}	1061.46	$1065.4^{+4.2}_{-4.2}$
A_{143}^{PS}	30	58^{+30}_{-30}	Ω_m	0.285	$0.229^{+0.053}_{-0.049}$	r_{drag}	141.8	$135.8^{+8.2}_{-8.0}$
A_{217}^{PS}	93.7	107^{+30}_{-40}	σ_8	0.843	$0.98^{+0.11}_{-0.11}$	k_D	0.1441	$0.1490^{+0.0066}_{-0.0066}$
A_{143}^{CIB}	10.5	—	z_{re}	10.9	21^{+6}_{-7}	$100\theta_D$	0.16288	$0.1641^{+0.0020}_{-0.0021}$
A_{217}^{CIB}	34.1	30^{+20}_{-20}	H_0	72.7	83^{+10}_{-10}	z_{eq}	3282	3062^{+220}_{-220}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.22	$2.98^{+0.60}_{-0.61}$	$100\theta_{\text{eq}}$	0.836	$0.887^{+0.052}_{-0.052}$
$r_{143 \times 217}^{\text{PS}}$	0.881	> 0.737	$\Omega_m h^2$	0.1506	$0.156^{+0.013}_{-0.013}$	$r_{\text{drag}}/D_V(0.57)$	0.07308	$0.0773^{+0.0044}_{-0.0043}$

Best-fit $\chi_{\text{eff}}^2 = 8219.16$; R-1 = 0.00627

χ_{eff}^2 : CMB - lowl: -9.04 CamSpec: 7799.89 SN - SNLS: 427.42

9.13 base_nnu_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02236	$0.0234^{+0.0015}_{-0.0014}$	$r_{143 \times 217}^{\text{CIB}}$	0.57	—	$\Omega_m h^3$	0.1053	$0.121^{+0.028}_{-0.025}$
$\Omega_c h^2$	0.1257	$0.130^{+0.012}_{-0.012}$	γ^{CIB}	0.521	$0.54^{+0.23}_{-0.26}$	Y_P	0.2541	$0.263^{+0.014}_{-0.014}$
$100\theta_{\text{MC}}$	1.04075	$1.0407^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8606	$1.872^{+0.044}_{-0.045}$
τ	0.085	$0.19^{+0.12}_{-0.12}$	c_{217}	0.99640	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.35	$12.6^{+1.0}_{-1.1}$
N_{eff}	3.53	$4.26^{+1.3}_{-1.2}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.99	$1090.7^{+1.4}_{-1.3}$
n_s	0.977	$1.023^{+0.064}_{-0.057}$	A^{kSZ}	6.98	—	r_*	140.7	$136.0^{+8.1}_{-8.1}$
$\ln(10^{10} A_s)$	3.094	$3.32^{+0.24}_{-0.24}$	β_1^1	0.64	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04057	$1.0400^{+0.0019}_{-0.0017}$
A_{100}^{PS}	150	179^{+100}_{-100}	Ω_Λ	0.703	$0.749^{+0.062}_{-0.061}$	z_{drag}	1060.77	$1063.9^{+4.6}_{-4.4}$
A_{143}^{PS}	37	57^{+30}_{-30}	Ω_m	0.297	$0.251^{+0.061}_{-0.062}$	r_{drag}	143.3	$138.3^{+8.6}_{-8.5}$
A_{217}^{PS}	101.0	107^{+30}_{-40}	σ_8	0.840	$0.94^{+0.12}_{-0.12}$	k_D	0.1430	$0.1470^{+0.0070}_{-0.0066}$
A_{143}^{CIB}	8.93	—	z_{re}	10.8	$18.7^{+7.6}_{-8.1}$	$100\theta_D$	0.16246	$0.1635^{+0.0022}_{-0.0020}$
A_{217}^{CIB}	32.2	30^{+20}_{-20}	H_0	70.8	79^{+10}_{-10}	z_{eq}	3325	3150^{+240}_{-250}
A_{143}^{tSZ}	9.21	—	$10^9 A_s$	2.21	$2.77^{+0.65}_{-0.61}$	$100\theta_{\text{eq}}$	0.828	$0.866^{+0.059}_{-0.051}$
$r_{143 \times 217}^{\text{PS}}$	0.885	> 0.736	$\Omega_m h^2$	0.1487	$0.154^{+0.013}_{-0.012}$	$r_{\text{drag}}/D_V(0.57)$	0.07241	$0.0756^{+0.0049}_{-0.0044}$

Best-fit $\chi_{\text{eff}}^2 = 7921.24$; R-1 = 0.00665

χ_{eff}^2 : CMB - lowl: -8.61 CamSpec: 7798.96 SN - Union2.1: 130.09

9.14 base_nnu_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02263	$0.02267^{+0.00097}_{-0.00096}$	σ_8	0.815	$0.87^{+0.18}_{-0.16}$	r_*	145.3	135^{+30}_{-30}
$\Omega_c h^2$	0.115	$0.141^{+0.079}_{-0.064}$	z_{re}	10.84	$11.4^{+3.3}_{-3.1}$	$100\theta_*$	1.0404	$1.036^{+0.014}_{-0.013}$
$100\theta_{\text{MC}}$	1.0403	$1.037^{+0.012}_{-0.011}$	H_0	69.7	76^{+20}_{-10}	z_{drag}	1060.3	$1063.1^{+8.6}_{-7.4}$
τ	0.0901	$0.089^{+0.028}_{-0.026}$	$10^9 A_s$	2.220	$2.30^{+0.31}_{-0.32}$	r_{drag}	147.9	138^{+30}_{-30}
N_{eff}	3.09	$4.58^{+4.5}_{-3.6}$	$\Omega_m h^2$	0.138	$0.164^{+0.079}_{-0.064}$	k_D	0.1399	$0.148^{+0.025}_{-0.020}$
n_s	0.975	$0.990^{+0.055}_{-0.054}$	$\Omega_m h^3$	0.096	$0.127^{+0.091}_{-0.070}$	$100\theta_D$	0.1608	$0.164^{+0.010}_{-0.0089}$
$\ln(10^{10} A_s)$	3.100	$3.13^{+0.14}_{-0.14}$	Y_P	0.2485	$0.264^{+0.045}_{-0.041}$	z_{eq}	3266	3247^{+240}_{-220}
A_{tSZ}	0.34	—	$10^9 A_s e^{-2\tau}$	1.853	$1.93^{+0.26}_{-0.24}$	$100\theta_{\text{eq}}$	0.8388	$0.842^{+0.045}_{-0.043}$
Ω_Λ	0.716	$0.715^{+0.053}_{-0.055}$	Age/Gyr	13.72	$12.8^{+2.5}_{-2.7}$	$r_{\text{drag}}/D_V(0.57)$	0.07311	$0.0729^{+0.0035}_{-0.0035}$
Ω_m	0.284	$0.285^{+0.055}_{-0.053}$	z_*	1089.3	$1093^{+10}_{-8.7}$			

Best-fit $\chi^2_{\text{eff}} = 7557.87$; R-1 = 0.02548

χ^2_{eff} : CMB - WMAP: 7557.87

9.15 base_nnu_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02255	$0.02250^{+0.00082}_{-0.00081}$	σ_8	0.823	$0.823^{+0.086}_{-0.083}$	r_*	144.6	144^{+15}_{-15}
$\Omega_c h^2$	0.1174	$0.119^{+0.030}_{-0.028}$	z_{re}	10.77	$10.7^{+2.5}_{-2.3}$	$100\theta_*$	1.0398	$1.0392^{+0.0087}_{-0.0079}$
$100\theta_{\text{MC}}$	1.0397	$1.0392^{+0.0077}_{-0.0075}$	H_0	68.8	$69.2^{+7.6}_{-7.3}$	z_{drag}	1060.28	$1060.4^{+3.9}_{-3.8}$
τ	0.0882	$0.087^{+0.027}_{-0.026}$	$10^9 A_s$	2.223	$2.22^{+0.20}_{-0.19}$	r_{drag}	147.3	147^{+15}_{-16}
N_{eff}	3.11	$3.24^{+1.7}_{-1.6}$	$\Omega_m h^2$	0.1405	$0.142^{+0.030}_{-0.028}$	k_D	0.1405	$0.141^{+0.011}_{-0.010}$
n_s	0.9705	$0.971^{+0.031}_{-0.030}$	$\Omega_m h^3$	0.0967	$0.099^{+0.032}_{-0.029}$	$100\theta_D$	0.16078	$0.1611^{+0.0046}_{-0.0045}$
$\ln(10^{10} A_s)$	3.101	$3.099^{+0.087}_{-0.086}$	Y_P	0.2488	$0.250^{+0.022}_{-0.021}$	z_{eq}	3313	3307^{+140}_{-130}
A_{tSZ}	1.15	—	$10^9 A_s e^{-2\tau}$	1.863	$1.86^{+0.13}_{-0.13}$	$100\theta_{\text{eq}}$	0.8291	$0.830^{+0.023}_{-0.022}$
Ω_Λ	0.7033	$0.703^{+0.023}_{-0.024}$	Age/Gyr	13.73	$13.7^{+1.3}_{-1.4}$	$r_{\text{drag}}/D_V(0.57)$	0.07230	$0.0723^{+0.0015}_{-0.0014}$
Ω_m	0.2967	$0.297^{+0.024}_{-0.023}$	z_*	1089.63	$1090.0^{+4.4}_{-4.2}$			

Best-fit $\chi^2_{\text{eff}} = 7559.62$; R-1 = 0.02217

χ^2_{eff} : BAO - 6DF: 0.12 DR7: 0.31 DR9: 0.91 CMB - WMAP: 7558.28

9.16 base_nnu_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02288	$0.02265^{+0.00094}_{-0.00091}$	σ_8	0.813	$0.850^{+0.089}_{-0.088}$	r_*	143.7	138^{+13}_{-13}
$\Omega_c h^2$	0.1160	$0.131^{+0.034}_{-0.031}$	z_{re}	10.90	$11.2^{+2.4}_{-2.3}$	$100\theta_*$	1.0401	$1.0367^{+0.0079}_{-0.0073}$
$100\theta_{\text{MC}}$	1.0402	$1.0372^{+0.0072}_{-0.0066}$	H_0	72.31	$73.8^{+4.6}_{-4.5}$	z_{drag}	1061.12	$1062.1^{+3.2}_{-3.1}$
τ	0.0909	$0.089^{+0.028}_{-0.027}$	$10^9 A_s$	2.222	$2.28^{+0.19}_{-0.17}$	r_{drag}	146.2	140^{+13}_{-13}
N_{eff}	3.33	$4.03^{+1.5}_{-1.4}$	$\Omega_m h^2$	0.1395	$0.154^{+0.033}_{-0.031}$	k_D	0.1410	$0.145^{+0.010}_{-0.0094}$
n_s	0.9833	$0.986^{+0.023}_{-0.023}$	$\Omega_m h^3$	0.1009	$0.114^{+0.029}_{-0.027}$	$100\theta_D$	0.16126	$0.1631^{+0.0040}_{-0.0037}$
$\ln(10^{10} A_s)$	3.101	$3.126^{+0.079}_{-0.075}$	Y_P	0.2518	$0.260^{+0.017}_{-0.017}$	z_{eq}	3197	3232^{+200}_{-180}
A_{tSZ}	1.29	—	$10^9 A_s e^{-2\tau}$	1.853	$1.91^{+0.13}_{-0.13}$	$100\theta_{\text{eq}}$	0.8532	$0.844^{+0.039}_{-0.038}$
Ω_Λ	0.733	$0.717^{+0.049}_{-0.052}$	Age/Gyr	13.46	$13.01^{+0.98}_{-0.95}$	$r_{\text{drag}}/D_V(0.57)$	0.07423	$0.0731^{+0.0034}_{-0.0034}$
Ω_m	0.267	$0.283^{+0.052}_{-0.049}$	z_*	1089.32	$1091.5^{+4.8}_{-4.2}$			

Best-fit $\chi^2_{\text{eff}} = 7558.83$; R-1 = 0.01187

χ^2_{eff} : CMB - WMAP: 7558.41 Hubble - HST: 0.42

9.17 base_nnu_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02273	$0.02283^{+0.00095}_{-0.00096}$	σ_8	0.810	$0.86^{+0.17}_{-0.15}$	r_*	145.4	136^{+30}_{-30}
$\Omega_c h^2$	0.113	$0.136^{+0.070}_{-0.059}$	z_{re}	11.08	$11.5^{+3.2}_{-3.1}$	$100\theta_*$	1.0403	$1.037^{+0.013}_{-0.012}$
$100\theta_{\text{MC}}$	1.0402	$1.038^{+0.012}_{-0.010}$	H_0	70.8	77^{+20}_{-10}	z_{drag}	1060.4	$1063.1^{+8.0}_{-7.0}$
τ	0.0936	$0.091^{+0.028}_{-0.026}$	$10^9 A_s$	2.224	$2.29^{+0.29}_{-0.30}$	r_{drag}	148.0	139^{+30}_{-30}
N_{eff}	3.13	$4.50^{+4.1}_{-3.5}$	$\Omega_m h^2$	0.137	$0.160^{+0.070}_{-0.059}$	k_D	0.1397	$0.147^{+0.023}_{-0.020}$
n_s	0.979	$0.995^{+0.049}_{-0.051}$	$\Omega_m h^3$	0.097	$0.125^{+0.083}_{-0.066}$	$100\theta_D$	0.1608	$0.1640^{+0.0096}_{-0.0085}$
$\ln(10^{10} A_s)$	3.102	$3.13^{+0.13}_{-0.13}$	Y_P	0.2492	$0.263^{+0.041}_{-0.040}$	z_{eq}	3217	3182^{+210}_{-200}
A_{tSZ}	0.54	—	$10^9 A_s e^{-2\tau}$	1.844	$1.91^{+0.22}_{-0.22}$	$100\theta_{\text{eq}}$	0.8487	$0.855^{+0.041}_{-0.038}$
Ω_Λ	0.7273	$0.732^{+0.040}_{-0.043}$	Age/Gyr	13.66	$12.8^{+2.4}_{-2.5}$	$r_{\text{drag}}/D_V(0.57)$	0.07385	$0.0740^{+0.0031}_{-0.0029}$
Ω_m	0.2727	$0.268^{+0.043}_{-0.040}$	z_*	1089.1	$1092.0^{+9.2}_{-8.2}$			

Best-fit $\chi^2_{\text{eff}} = 7984.83$; R-1 = 0.01978

χ^2_{eff} : CMB - WMAP: 7558.17 SN - SNLS: 426.66

9.18 base_nnu_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02265	$0.02270^{+0.00094}_{-0.00093}$	σ_8	0.814	$0.87^{+0.17}_{-0.16}$	r_*	145.3	135^{+30}_{-30}
$\Omega_c h^2$	0.115	$0.140^{+0.077}_{-0.063}$	z_{re}	10.84	$11.4^{+3.3}_{-3.1}$	$100\theta_*$	1.0403	$1.036^{+0.014}_{-0.013}$
$100\theta_{\text{MC}}$	1.0402	$1.037^{+0.012}_{-0.010}$	H_0	69.9	76^{+20}_{-10}	z_{drag}	1060.3	$1063.1^{+8.5}_{-7.3}$
τ	0.0901	$0.089^{+0.028}_{-0.026}$	$10^9 A_s$	2.220	$2.30^{+0.31}_{-0.32}$	r_{drag}	147.9	138^{+30}_{-30}
N_{eff}	3.10	$4.56^{+4.5}_{-3.6}$	$\Omega_m h^2$	0.138	$0.163^{+0.077}_{-0.063}$	k_D	0.1399	$0.148^{+0.024}_{-0.021}$
n_s	0.976	$0.991^{+0.051}_{-0.053}$	$\Omega_m h^3$	0.096	$0.127^{+0.089}_{-0.069}$	$100\theta_D$	0.1608	$0.164^{+0.010}_{-0.0088}$
$\ln(10^{10} A_s)$	3.100	$3.13^{+0.14}_{-0.14}$	Y_P	0.2487	$0.264^{+0.045}_{-0.040}$	z_{eq}	3257	3237^{+220}_{-200}
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.854	$1.92^{+0.25}_{-0.24}$	$100\theta_{\text{eq}}$	0.8405	$0.844^{+0.041}_{-0.039}$
Ω_Λ	0.7177	$0.718^{+0.046}_{-0.047}$	Age/Gyr	13.71	$12.8^{+2.5}_{-2.7}$	$r_{\text{drag}}/D_V(0.57)$	0.07322	$0.0731^{+0.0032}_{-0.0030}$
Ω_m	0.2823	$0.282^{+0.047}_{-0.046}$	z_*	1089.3	$1092^{+10}_{-8.5}$			

Best-fit $\chi^2_{\text{eff}} = 7687.72$; R-1 = 0.02501

χ^2_{eff} : CMB - WMAP: 7557.82 SN - Union2.1: 129.90

9.19 base_nnu_planck_lowl_lowLike_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02230^{+0.00056}_{-0.00056}$	$r_{143 \times 217}^{\text{CIB}}$	0.449	< 0.828	$\Omega_m h^3$	0.0966	$0.103^{+0.012}_{-0.011}$
$\Omega_c h^2$	0.1192	$0.124^{+0.010}_{-0.0099}$	γ^{CIB}	0.561	$0.54^{+0.24}_{-0.25}$	Y_P	0.2482	$0.2523^{+0.0075}_{-0.0077}$
$100\theta_{\text{MC}}$	1.04140	$1.0409^{+0.0015}_{-0.0015}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8365	$1.856^{+0.045}_{-0.047}$
τ	0.0940	$0.093^{+0.027}_{-0.024}$	c_{217}	0.99647	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.76	$13.48^{+0.54}_{-0.53}$
N_{eff}	3.08	$3.40^{+0.59}_{-0.57}$	$\xi^{\text{tSZ-CIB}}$	0.18	—	z_*	1090.22	$1090.8^{+1.3}_{-1.3}$
n_s	0.9672	$0.973^{+0.020}_{-0.021}$	A^{kSZ}	0.9	—	r_*	144.6	$141.7^{+5.4}_{-5.2}$
$\ln(10^{10} A_s)$	3.098	$3.108^{+0.060}_{-0.057}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04153	$1.0408^{+0.0018}_{-0.0017}$
A_{100}^{PS}	157	181^{+100}_{-100}	Ω_Λ	0.6932	$0.697^{+0.021}_{-0.023}$	z_{drag}	1059.55	$1060.4^{+2.1}_{-2.1}$
A_{143}^{PS}	66.2	56^{+30}_{-30}	Ω_m	0.3068	$0.303^{+0.023}_{-0.021}$	r_{drag}	147.3	$144.4^{+5.6}_{-5.4}$
A_{217}^{PS}	119.5	106^{+30}_{-40}	σ_8	0.8310	$0.844^{+0.038}_{-0.037}$	k_D	0.14022	$0.1423^{+0.0041}_{-0.0041}$
A_{143}^{CIB}	0.0	—	z_{re}	11.42	$11.5^{+2.3}_{-2.2}$	$100\theta_D$	0.16136	$0.1621^{+0.0014}_{-0.0014}$
A_{217}^{CIB}	25	31^{+20}_{-20}	H_0	68.03	$69.8^{+3.8}_{-3.6}$	z_{eq}	3363	3349^{+84}_{-82}
A_{143}^{tSZ}	5.56	—	$10^9 A_s$	2.216	$2.24^{+0.14}_{-0.12}$	$100\theta_{\text{eq}}$	0.8202	$0.823^{+0.016}_{-0.016}$
$r_{143 \times 217}^{\text{PS}}$	0.910	> 0.729	$\Omega_m h^2$	0.1420	$0.147^{+0.010}_{-0.010}$	$r_{\text{drag}}/D_V(0.57)$	0.07189	$0.0721^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9807.20$; R-1 = 0.00576

χ_{eff}^2 : BAO - DR9: 0.36 DR7: 0.98 6DF: 0.03 CMB - lowLike: 2014.42 lowl: -7.60 CamSpec: 7798.53

9.20 base_nnu_planck_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02228^{+0.00056}_{-0.00056}$	$r_{143 \times 217}^{\text{CIB}}$	0.537	< 0.823	$\Omega_m h^3$	0.0965	$0.100^{+0.012}_{-0.011}$
$\Omega_c h^2$	0.1184	$0.1219^{+0.0095}_{-0.0091}$	γ^{CIB}	0.554	$0.53^{+0.24}_{-0.25}$	Y_P	0.2481	$0.2508^{+0.0074}_{-0.0076}$
$100\theta_{\text{MC}}$	1.04145	$1.0411^{+0.0015}_{-0.0015}$	c_{100}	1.00058	$1.00058^{+0.00079}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8342	$1.845^{+0.043}_{-0.045}$
τ	0.0942	$0.091^{+0.024}_{-0.022}$	c_{217}	0.99635	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.76	$13.58^{+0.55}_{-0.52}$
N_{eff}	3.07	$3.28^{+0.57}_{-0.56}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	z_*	1090.04	$1090.5^{+1.2}_{-1.2}$
n_s	0.9690	$0.970^{+0.020}_{-0.020}$	A^{kSZ}	0.0	—	r_*	144.8	$143.0^{+5.3}_{-5.1}$
$\ln(10^{10} A_s)$	3.098	$3.097^{+0.051}_{-0.050}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04158	$1.0411^{+0.0017}_{-0.0017}$
A_{100}^{PS}	157	177^{+100}_{-100}	Ω_Λ	0.6972	$0.699^{+0.020}_{-0.021}$	z_{drag}	1059.67	$1060.1^{+2.1}_{-2.0}$
A_{143}^{PS}	65.8	55^{+30}_{-30}	Ω_m	0.3028	$0.301^{+0.021}_{-0.020}$	r_{drag}	147.5	$145.6^{+5.5}_{-5.3}$
A_{217}^{PS}	120.1	105^{+30}_{-40}	σ_8	0.8291	$0.834^{+0.033}_{-0.032}$	k_D	0.14015	$0.1414^{+0.0040}_{-0.0039}$
A_{143}^{CIB}	0.0	—	z_{re}	11.40	$11.2^{+2.0}_{-2.0}$	$100\theta_D$	0.16124	$0.1618^{+0.0014}_{-0.0014}$
A_{217}^{CIB}	25	30^{+20}_{-20}	H_0	68.31	$69.4^{+3.7}_{-3.6}$	z_{eq}	3350	3341^{+79}_{-77}
A_{143}^{tSZ}	5.54	—	$10^9 A_s$	2.215	$2.21^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8229	$0.824^{+0.015}_{-0.015}$
$r_{143 \times 217}^{\text{PS}}$	0.913	> 0.725	$\Omega_m h^2$	0.1413	$0.1448^{+0.0097}_{-0.0094}$	$r_{\text{drag}}/D_V(0.57)$	0.07211	$0.0722^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9817.05$; R-1 = 0.00771

χ_{eff}^2 : BAO - DR9: 0.63 DR7: 0.59 6DF: 0.05 CMB - lowLike: 2014.38 lensing: 9.73 lowl: -7.86 CamSpec: 7799.00

9.21 base_nnu_planck_lowl_lowLike_highL_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02225	$0.02229^{+0.00056}_{-0.00056}$	β_1^1	0.44	$0.5^{+1.1}_{-1.1}$	σ_8	0.8351	$0.839^{+0.037}_{-0.036}$
$\Omega_c h^2$	0.1217	$0.1228^{+0.0094}_{-0.0088}$	$A_{148}^{\text{PS, ACT}}$	10.27	$10.5^{+1.2}_{-1.1}$	z_{re}	11.40	$11.5^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04114	$1.0411^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.0	77^{+9}_{-9}	H_0	68.80	$69.3^{+3.5}_{-3.4}$
τ	0.0930	$0.094^{+0.027}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.33	$7.55^{+2.9}_{-2.8}$	$10^9 A_s$	2.220	$2.23^{+0.14}_{-0.13}$
N_{eff}	3.22	$3.30^{+0.54}_{-0.51}$	$A_{150}^{\text{PS, SPT}}$	9.74	$10.0^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1446	$0.1458^{+0.0096}_{-0.0091}$
n_s	0.9667	$0.969^{+0.020}_{-0.020}$	$A_{220}^{\text{PS, SPT}}$	73.0	74^{+9}_{-9}	$\Omega_m h^3$	0.0995	$0.101^{+0.011}_{-0.010}$
$\ln(10^{10} A_s)$	3.100	$3.104^{+0.060}_{-0.056}$	$r_{95 \times 150}^{\text{PS}}$	0.791	> 0.682	Y_{P}	0.2501	$0.2511^{+0.0070}_{-0.0069}$
A_{100}^{PS}	207	220^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.543	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8432	$1.847^{+0.043}_{-0.044}$
A_{143}^{PS}	74.4	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9123	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.63	$13.56^{+0.50}_{-0.50}$
A_{217}^{PS}	62.3	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.434	$0.44^{+0.36}_{-0.39}$	z_*	1090.49	$1090.6^{+1.2}_{-1.1}$
A_{143}^{CIB}	3.15	$3.23^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.39}_{-0.39}$	r_*	143.21	$142.6^{+4.9}_{-4.9}$
A_{217}^{CIB}	51.8	49^{+10}_{-9}	y_{148}^{ACTs}	0.9905	$0.991^{+0.015}_{-0.014}$	$100\theta_*$	1.04117	$1.0410^{+0.0017}_{-0.0016}$
A_{143}^{tSZ}	4.38	< 4.96	y_{217}^{ACTs}	1.0015	$1.004^{+0.027}_{-0.026}$	z_{drag}	1060.01	$1060.2^{+2.0}_{-2.0}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9867	$0.987^{+0.015}_{-0.014}$	r_{drag}	145.9	$145.3^{+5.1}_{-5.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9601	$0.962^{+0.021}_{-0.020}$	k_{D}	0.14126	$0.1417^{+0.0039}_{-0.0038}$
γ^{CIB}	0.652	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9819	$0.981^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16169	$0.1619^{+0.0013}_{-0.0013}$
c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00077}$	y_{150}^{SPT}	0.9829	$0.985^{+0.020}_{-0.019}$	z_{eq}	3359	3354^{+82}_{-81}
c_{217}	0.99738	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0162	$1.022^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8210	$0.822^{+0.016}_{-0.015}$
$\xi^{\text{tSZ-CIB}}$	0.02	—	Ω_{Λ}	0.6946	$0.696^{+0.021}_{-0.023}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07194	$0.0720^{+0.0012}_{-0.0012}$
A^{kSZ}	2.32	$5.61^{+4.0}_{-4.3}$	Ω_{m}	0.3054	$0.304^{+0.023}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.99$; R-1 = 0.00671

χ_{eff}^2 : BAO - DR7: 0.88 DR9: 0.41 6DF: 0.12 CMB - lowLike: 2014.36 lowl: -7.35 CamSpec: 7807.88 highL: 693.55

9.22 base_nnu_planck_lowl_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02233	$0.02226^{+0.00057}_{-0.00057}$	β_1^1	0.47	$0.4^{+1.1}_{-1.1}$	σ_8	0.8335	$0.831^{+0.033}_{-0.031}$
$\Omega_c h^2$	0.1210	$0.1208^{+0.0088}_{-0.0087}$	$A_{148}^{\text{PS, ACT}}$	10.39	$10.6^{+1.2}_{-1.1}$	z_{re}	11.36	$11.2^{+2.1}_{-2.0}$
$100\theta_{\text{MC}}$	1.04119	$1.0412^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.1	$76.8^{+8.5}_{-9.2}$	H_0	69.07	$68.9^{+3.5}_{-3.5}$
τ	0.0930	$0.092^{+0.025}_{-0.023}$	$A_{95}^{\text{PS, SPT}}$	7.44	$7.76^{+2.9}_{-2.9}$	$10^9 A_s$	2.218	$2.21^{+0.12}_{-0.11}$
N_{eff}	3.22	$3.20^{+0.54}_{-0.51}$	$A_{150}^{\text{PS, SPT}}$	9.89	$10.2^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1440	$0.1437^{+0.0091}_{-0.0089}$
n_s	0.9684	$0.967^{+0.020}_{-0.020}$	$A_{220}^{\text{PS, SPT}}$	73.2	74^{+9}_{-9}	$\Omega_m h^3$	0.0995	$0.099^{+0.011}_{-0.010}$
$\ln(10^{10} A_s)$	3.099	$3.095^{+0.053}_{-0.051}$	$r_{95 \times 150}^{\text{PS}}$	0.799	> 0.691	Y_{P}	0.2501	$0.2498^{+0.0070}_{-0.0070}$
A_{100}^{PS}	210	220^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.547	$0.59^{+0.23}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8413	$1.838^{+0.041}_{-0.043}$
A_{143}^{PS}	74.3	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9080	$0.934^{+0.047}_{-0.044}$	Age/Gyr	13.62	$13.65^{+0.52}_{-0.50}$
A_{217}^{PS}	61.9	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.423	$0.43^{+0.36}_{-0.40}$	z_*	1090.33	$1090.4^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.24	$3.25^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.838	$0.85^{+0.39}_{-0.40}$	r_*	143.34	$143.6^{+5.0}_{-4.9}$
A_{217}^{CIB}	52.3	50^{+10}_{-9}	y_{148}^{ACTs}	0.9910	$0.991^{+0.015}_{-0.015}$	$100\theta_*$	1.04122	$1.0413^{+0.0017}_{-0.0016}$
A_{143}^{tSZ}	4.66	< 4.92	y_{217}^{ACTs}	1.0015	$1.005^{+0.027}_{-0.026}$	z_{drag}	1060.12	$1059.9^{+2.0}_{-2.0}$
$r_{143 \times 217}^{\text{PS}}$	0.822	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9870	$0.988^{+0.015}_{-0.014}$	r_{drag}	146.0	$146.3^{+5.2}_{-5.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9601	$0.963^{+0.020}_{-0.020}$	k_{D}	0.14122	$0.1410^{+0.0037}_{-0.0038}$
γ^{CIB}	0.657	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9831	$0.983^{+0.039}_{-0.038}$	$100\theta_{\text{D}}$	0.16159	$0.1616^{+0.0013}_{-0.0013}$
c_{100}	1.00059	$1.00058^{+0.00080}_{-0.00078}$	y_{150}^{SPT}	0.9841	$0.986^{+0.020}_{-0.019}$	z_{eq}	3347	3348^{+80}_{-77}
c_{217}	0.99730	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0165	$1.023^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8235	$0.823^{+0.015}_{-0.015}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_{Λ}	0.6982	$0.697^{+0.020}_{-0.022}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07214	$0.0721^{+0.0012}_{-0.0012}$
A^{kSZ}	1.21	$4.88^{+3.7}_{-4.3}$	Ω_{m}	0.3018	$0.303^{+0.022}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10518.42$; R-1 = 0.01767

χ_{eff}^2 : BAO - DR7: 0.55 DR9: 0.67 6DF: 0.17 CMB - lowLike: 2014.31 lensing: 9.85 lowl: -7.62 CamSpec: 7808.17 highL: 692.25

9.23 base_nnu_planck_lowl_lowLike_highL_BAO_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02239	$0.02247^{+0.00052}_{-0.00051}$	β_1^1	0.48	$0.5^{+1.1}_{-1.1}$	σ_8	0.8370	$0.850^{+0.035}_{-0.035}$
$\Omega_c h^2$	0.1232	$0.1257^{+0.0086}_{-0.0084}$	$A_{148}^{\text{PS, ACT}}$	10.22	$10.5^{+1.2}_{-1.1}$	z_{re}	11.24	$11.8^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04100	$1.0408^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.0	$76.5^{+8.5}_{-9.1}$	H_0	70.06	$70.9^{+2.9}_{-2.8}$
τ	0.0909	$0.097^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.27	$7.47^{+2.9}_{-2.8}$	$10^9 A_s$	2.220	$2.26^{+0.13}_{-0.13}$
N_{eff}	3.372	$3.52^{+0.48}_{-0.45}$	$A_{150}^{\text{PS, SPT}}$	9.68	$9.93^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1462	$0.1488^{+0.0089}_{-0.0085}$
n_s	0.9733	$0.977^{+0.017}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	72.6	74^{+9}_{-9}	$\Omega_m h^3$	0.1024	$0.106^{+0.010}_{-0.0092}$
$\ln(10^{10} A_s)$	3.100	$3.118^{+0.059}_{-0.055}$	$r_{95 \times 150}^{\text{PS}}$	0.793	> 0.685	Y_{P}	0.2521	$0.2540^{+0.0061}_{-0.0060}$
A_{100}^{PS}	211	225^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.546	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8505	$1.861^{+0.039}_{-0.039}$
A_{143}^{PS}	76.5	78^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9125	$0.938^{+0.047}_{-0.044}$	Age/Gyr	13.477	$13.35^{+0.42}_{-0.42}$
A_{217}^{PS}	64.2	64^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.433	$0.44^{+0.36}_{-0.39}$	z_*	1090.60	$1090.8^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.17	$3.22^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.39}_{-0.39}$	r_*	142.02	$140.7^{+4.3}_{-4.3}$
A_{217}^{CIB}	51.6	49^{+10}_{-9}	y_{148}^{ACTs}	0.9895	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04092	$1.0406^{+0.0015}_{-0.0015}$
A_{143}^{tSZ}	4.44	< 4.82	y_{217}^{ACTs}	1.0005	$1.002^{+0.026}_{-0.026}$	z_{drag}	1060.54	$1061.0^{+1.8}_{-1.7}$
$r_{143 \times 217}^{\text{PS}}$	0.823	$0.83^{+0.14}_{-0.12}$	y_{148}^{ACTe}	0.9856	$0.986^{+0.014}_{-0.014}$	r_{drag}	144.65	$143.3^{+4.5}_{-4.5}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.852	y_{217}^{ACTe}	0.9589	$0.961^{+0.021}_{-0.020}$	k_{D}	0.14215	$0.1432^{+0.0035}_{-0.0034}$
γ^{CIB}	0.648	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9801	$0.979^{+0.039}_{-0.037}$	$100\theta_{\text{D}}$	0.16198	$0.1623^{+0.0012}_{-0.0012}$
c_{100}	1.00058	$1.00058^{+0.00081}_{-0.00077}$	y_{150}^{SPT}	0.9810	$0.983^{+0.020}_{-0.019}$	z_{eq}	3332	3329^{+76}_{-74}
c_{217}	0.99729	$0.9974^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0128	$1.020^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8264	$0.827^{+0.014}_{-0.014}$
$\xi^{\text{tSZ-CIB}}$	0.01	—	Ω_{Λ}	0.7021	$0.704^{+0.018}_{-0.020}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07235	$0.0724^{+0.0011}_{-0.0011}$
A^{kSZ}	2.28	$5.78^{+4.1}_{-4.1}$	Ω_{m}	0.2979	$0.296^{+0.020}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10512.92$; R-1 = 0.01333

χ_{eff}^2 : BAO - DR9: 0.98 DR7: 0.29 6DF: 0.40 CMB - lowLike: 2014.20 lowl: -8.22 CamSpec: 7808.10 highL: 694.59 Hubble - HST: 2.43

9.24 base_nnu_planck_lowl_lowLike_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02262^{+0.00080}_{-0.00075}$	$r_{143 \times 217}^{\text{PS}}$	0.873	> 0.718	$\Omega_m h^3$	0.0991	$0.109^{+0.016}_{-0.016}$
$\Omega_c h^2$	0.1204	$0.126^{+0.011}_{-0.011}$	$r_{143 \times 217}^{\text{CIB}}$	0.332	$0.50^{+0.40}_{-0.45}$	Y_P	0.2499	$0.2560^{+0.0097}_{-0.0094}$
$100\theta_{\text{MC}}$	1.04131	$1.0408^{+0.0014}_{-0.0014}$	γ^{CIB}	0.537	$0.53^{+0.25}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8429	$1.865^{+0.046}_{-0.048}$
τ	0.0934	$0.0999^{+0.031}_{-0.030}$	c_{100}	1.00060	$1.00059^{+0.00079}_{-0.00079}$	Age/Gyr	13.63	$13.19^{+0.70}_{-0.69}$
N_{eff}	3.20	$3.68^{+0.77}_{-0.78}$	c_{217}	0.99644	$0.9966^{+0.0027}_{-0.0027}$	z_*	1090.30	$1090.9^{+1.3}_{-1.3}$
n_s	0.9726	$0.987^{+0.031}_{-0.029}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	143.6	$139.8^{+6.2}_{-6.1}$
$\ln(10^{10} A_s)$	3.101	$3.125^{+0.071}_{-0.064}$	A^{kSZ}	1.17	—	$100\theta_*$	1.04133	$1.0405^{+0.0018}_{-0.0018}$
α_{SNLS}	1.419	$1.43^{+0.22}_{-0.20}$	β_1^1	0.70	$0.6^{+1.1}_{-1.1}$	z_{drag}	1060.01	$1061.5^{+2.8}_{-2.7}$
β_{SNLS}	3.248	$3.25^{+0.22}_{-0.21}$	Ω_Λ	0.7000	$0.716^{+0.036}_{-0.037}$	r_{drag}	146.3	$142.3^{+6.4}_{-6.3}$
A_{100}^{PS}	154	188^{+100}_{-100}	Ω_m	0.3000	$0.284^{+0.037}_{-0.036}$	k_D	0.14098	$0.1439^{+0.0049}_{-0.0047}$
A_{143}^{PS}	66.5	57^{+30}_{-30}	σ_8	0.8333	$0.852^{+0.044}_{-0.041}$	$100\theta_D$	0.16161	$0.1626^{+0.0017}_{-0.0016}$
A_{217}^{PS}	121.5	104^{+40}_{-40}	z_{re}	11.38	$12.0^{+2.6}_{-2.4}$	z_{eq}	3339	3280^{+140}_{-140}
A_{143}^{CIB}	0.0	—	H_0	69.1	$72.6^{+6.3}_{-5.7}$	$100\theta_{\text{eq}}$	0.8250	$0.837^{+0.029}_{-0.027}$
A_{217}^{CIB}	25	32^{+20}_{-20}	$10^9 A_s$	2.221	$2.28^{+0.16}_{-0.15}$	$r_{\text{drag}}/D_V(0.57)$	0.07226	$0.0732^{+0.0024}_{-0.0022}$
A_{143}^{tSZ}	6.12	—	$\Omega_m h^2$	0.1433	$0.150^{+0.011}_{-0.011}$			

Best-fit $\chi_{\text{eff}}^2 = 10228.95$; R-1 = 0.01078

χ_{eff}^2 : CMB - lowLike: 2014.31 lowl: -8.21 CamSpec: 7798.91 SN - SNLS: 423.27

9.25 base_nnu_planck_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02237	$0.02262^{+0.00079}_{-0.00074}$	$r_{143 \times 217}^{\text{PS}}$	0.906	> 0.716	$\Omega_m h^3$	0.0975	$0.106^{+0.015}_{-0.015}$
$\Omega_c h^2$	0.1180	$0.124^{+0.010}_{-0.0099}$	$r_{143 \times 217}^{\text{CIB}}$	0.698	< 0.840	Y_P	0.2488	$0.2543^{+0.0094}_{-0.0090}$
$100\theta_{\text{MC}}$	1.04155	$1.0410^{+0.0015}_{-0.0014}$	γ^{CIB}	0.542	$0.53^{+0.25}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.854^{+0.044}_{-0.046}$
τ	0.0947	$0.099^{+0.030}_{-0.029}$	c_{100}	1.00060	$1.00060^{+0.00080}_{-0.00080}$	Age/Gyr	13.70	$13.30^{+0.67}_{-0.68}$
N_{eff}	3.12	$3.54^{+0.75}_{-0.72}$	c_{217}	0.99641	$0.9965^{+0.0027}_{-0.0027}$	z_*	1089.92	$1090.5^{+1.3}_{-1.2}$
n_s	0.9724	$0.984^{+0.030}_{-0.028}$	$\xi^{\text{tSZ-CIB}}$	0.12	—	r_*	144.6	$141.0^{+6.0}_{-6.0}$
$\ln(10^{10} A_s)$	3.098	$3.118^{+0.067}_{-0.064}$	A^{kSZ}	1.26	—	$100\theta_*$	1.04163	$1.0408^{+0.0018}_{-0.0017}$
α_{SNLS}	1.420	$1.43^{+0.22}_{-0.20}$	β_1^1	0.66	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.93	$1061.2^{+2.8}_{-2.6}$
β_{SNLS}	3.247	$3.26^{+0.22}_{-0.21}$	Ω_Λ	0.7046	$0.716^{+0.032}_{-0.033}$	r_{drag}	147.3	$143.6^{+6.3}_{-6.2}$
A_{100}^{PS}	144	182^{+100}_{-100}	Ω_m	0.2954	$0.284^{+0.033}_{-0.032}$	k_D	0.14033	$0.1430^{+0.0048}_{-0.0046}$
A_{143}^{PS}	61.1	54^{+30}_{-30}	σ_8	0.8272	$0.844^{+0.039}_{-0.039}$	$100\theta_D$	0.16129	$0.1623^{+0.0016}_{-0.0016}$
A_{217}^{PS}	119.4	103^{+30}_{-40}	z_{re}	11.41	$11.9^{+2.5}_{-2.3}$	z_{eq}	3324	3279^{+120}_{-120}
A_{143}^{CIB}	0.0	—	H_0	69.1	$72.0^{+5.8}_{-5.7}$	$100\theta_{\text{eq}}$	0.8282	$0.837^{+0.027}_{-0.024}$
A_{217}^{CIB}	24	31^{+20}_{-20}	$10^9 A_s$	2.215	$2.26^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_V(0.57)$	0.07254	$0.0732^{+0.0021}_{-0.0019}$
A_{143}^{tSZ}	6.46	—	$\Omega_m h^2$	0.1410	$0.147^{+0.011}_{-0.010}$			

Best-fit $\chi_{\text{eff}}^2 = 10238.70$; R-1 = 0.01174

χ_{eff}^2 : CMB - lowLike: 2014.31 lensing: 9.31 lowl: -8.25 CamSpec: 7799.80 SN - SNLS: 422.91

9.26 base_nnu_planck_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02227	$0.02236^{+0.00056}_{-0.00056}$	$r_{143 \times 217}^{\text{PS}}$	0.953	> 0.726	$\Omega_m h^3$	0.0976	$0.104^{+0.012}_{-0.012}$
$\Omega_c h^2$	0.1194	$0.124^{+0.010}_{-0.0098}$	$r_{143 \times 217}^{\text{CIB}}$	0.489	< 0.835	Y_P	0.2489	$0.2530^{+0.0074}_{-0.0075}$
$100\theta_{\text{MC}}$	1.04142	$1.0409^{+0.0015}_{-0.0014}$	γ^{CIB}	0.554	$0.53^{+0.25}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8389	$1.857^{+0.044}_{-0.046}$
τ	0.0943	$0.095^{+0.027}_{-0.025}$	c_{100}	1.00058	$1.00058^{+0.00079}_{-0.00079}$	Age/Gyr	13.71	$13.43^{+0.53}_{-0.52}$
N_{eff}	3.13	$3.44^{+0.59}_{-0.56}$	c_{217}	0.99641	$0.9965^{+0.0027}_{-0.0027}$	z_*	1090.18	$1090.8^{+1.3}_{-1.2}$
n_s	0.9702	$0.976^{+0.020}_{-0.020}$	$\xi^{\text{tSZ-CIB}}$	0.39	—	r_*	144.3	$141.5^{+5.4}_{-5.1}$
$\ln(10^{10} A_s)$	3.100	$3.111^{+0.061}_{-0.056}$	A^{kSZ}	0.8	—	$100\theta_*$	1.04150	$1.0408^{+0.0017}_{-0.0017}$
α_{SNLS}	1.420	$1.43^{+0.22}_{-0.20}$	β_1^1	0.69	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.82	$1060.6^{+2.1}_{-2.1}$
β_{SNLS}	3.251	$3.25^{+0.22}_{-0.21}$	Ω_Λ	0.6972	$0.702^{+0.020}_{-0.021}$	r_{drag}	146.9	$144.1^{+5.5}_{-5.3}$
A_{100}^{PS}	147	182^{+100}_{-100}	Ω_m	0.3028	$0.298^{+0.021}_{-0.020}$	k_D	0.14053	$0.1425^{+0.0041}_{-0.0041}$
A_{143}^{PS}	64.0	57^{+30}_{-30}	σ_8	0.8317	$0.845^{+0.039}_{-0.037}$	$100\theta_D$	0.16140	$0.1622^{+0.0015}_{-0.0014}$
A_{217}^{PS}	122.9	106^{+30}_{-40}	z_{re}	11.43	$11.6^{+2.3}_{-2.2}$	z_{eq}	3350	3331^{+81}_{-79}
A_{143}^{CIB}	0.0	—	H_0	68.57	$70.4^{+3.7}_{-3.6}$	$100\theta_{\text{eq}}$	0.8229	$0.827^{+0.016}_{-0.015}$
A_{217}^{CIB}	24	31^{+20}_{-20}	$10^9 A_s$	2.220	$2.24^{+0.14}_{-0.13}$	$r_{\text{drag}}/D_V(0.57)$	0.07211	$0.0723^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.95	—	$\Omega_m h^2$	0.1423	$0.147^{+0.010}_{-0.010}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.74$; R-1 = 0.01395

χ_{eff}^2 : BAO - DR7: 0.60 6DF: 0.08 DR9: 0.62 CMB - lowLike: 2014.38 lowl: -7.96 CamSpec: 7798.98 SN - SNLS: 423.50

9.27 base_nnu_planck_lowl_lowLike_SNLS_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02253	$0.02269^{+0.00061}_{-0.00058}$	$r_{143 \times 217}^{\text{PS}}$	0.882	> 0.718	$\Omega_m h^3$	0.1072	$0.110^{+0.011}_{-0.011}$
$\Omega_c h^2$	0.1252	$0.1270^{+0.0096}_{-0.0093}$	$r_{143 \times 217}^{\text{CIB}}$	0.597	$0.51^{+0.40}_{-0.45}$	Y_P	0.2553	$0.2570^{+0.0064}_{-0.0066}$
$100\theta_{\text{MC}}$	1.04082	$1.0407^{+0.0014}_{-0.0014}$	γ^{CIB}	0.511	$0.53^{+0.25}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8580	$1.868^{+0.040}_{-0.041}$
τ	0.0781	$0.101^{+0.030}_{-0.027}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00079}$	Age/Gyr	13.241	$13.11^{+0.46}_{-0.45}$
N_{eff}	3.62	$3.76^{+0.53}_{-0.52}$	c_{217}	0.99639	$0.9966^{+0.0027}_{-0.0027}$	z_*	1090.82	$1090.9^{+1.3}_{-1.3}$
n_s	0.9818	$0.990^{+0.020}_{-0.020}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	140.29	$139.2^{+4.6}_{-4.4}$
$\ln(10^{10} A_s)$	3.078	$3.130^{+0.063}_{-0.058}$	A^{kSZ}	10.0	—	$100\theta_*$	1.04058	$1.0404^{+0.0016}_{-0.0016}$
α_{SNLS}	1.419	$1.43^{+0.22}_{-0.20}$	β_1^1	0.66	$0.6^{+1.1}_{-1.1}$	z_{drag}	1061.19	$1061.8^{+1.9}_{-1.9}$
β_{SNLS}	3.249	$3.26^{+0.22}_{-0.21}$	Ω_Λ	0.7158	$0.720^{+0.025}_{-0.027}$	r_{drag}	142.85	$141.7^{+4.8}_{-4.5}$
A_{100}^{PS}	139	189^{+100}_{-100}	Ω_m	0.2842	$0.280^{+0.027}_{-0.025}$	k_D	0.14332	$0.1443^{+0.0036}_{-0.0036}$
A_{143}^{PS}	32	58^{+30}_{-30}	σ_8	0.8293	$0.855^{+0.039}_{-0.037}$	$100\theta_D$	0.16259	$0.1628^{+0.0013}_{-0.0013}$
A_{217}^{PS}	96.9	104^{+40}_{-40}	z_{re}	10.12	$12.1^{+2.4}_{-2.3}$	z_{eq}	3278	3266^{+100}_{-100}
A_{143}^{CIB}	8.10	—	H_0	72.25	$73.3^{+3.8}_{-3.7}$	$100\theta_{\text{eq}}$	0.8371	$0.840^{+0.021}_{-0.021}$
A_{217}^{CIB}	31.9	32^{+20}_{-20}	$10^9 A_s$	2.172	$2.29^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_V(0.57)$	0.07315	$0.0734^{+0.0017}_{-0.0016}$
A_{143}^{tSZ}	10.0	—	$\Omega_m h^2$	0.1483	$0.1504^{+0.0096}_{-0.0094}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.04$; R-1 = 0.01130

χ_{eff}^2 : CMB - lowLike: 2014.89 lowl: -9.09 CamSpec: 7800.81 Hubble - HST: 0.43 SN - SNLS: 422.10

9.28 base_nnu_planck_lowl_lowLike_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02246^{+0.00078}_{-0.00076}$	$r_{143 \times 217}^{\text{CIB}}$	0.580	$0.49^{+0.38}_{-0.48}$	$\Omega_m h^3$	0.0974	$0.106^{+0.016}_{-0.016}$
$\Omega_c h^2$	0.1203	$0.126^{+0.011}_{-0.011}$	γ^{CIB}	0.548	$0.53^{+0.24}_{-0.26}$	Y_P	0.2487	$0.2544^{+0.0096}_{-0.0098}$
$100\theta_{\text{MC}}$	1.04131	$1.0408^{+0.0015}_{-0.0014}$	c_{100}	1.00057	$1.00058^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8424	$1.862^{+0.047}_{-0.049}$
τ	0.0916	$0.097^{+0.031}_{-0.027}$	c_{217}	0.99643	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.73	$13.32^{+0.72}_{-0.69}$
N_{eff}	3.12	$3.56^{+0.77}_{-0.73}$	$\xi^{\text{tSZ-CIB}}$	0.21	—	z_*	1090.37	$1090.9^{+1.3}_{-1.3}$
n_s	0.9670	$0.980^{+0.031}_{-0.030}$	A^{kSZ}	1.11	—	r_*	144.1	$140.6^{+6.3}_{-6.1}$
$\ln(10^{10} A_s)$	3.097	$3.118^{+0.069}_{-0.063}$	β_1^1	0.71	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04141	$1.0406^{+0.0018}_{-0.0018}$
A_{100}^{PS}	152	186^{+100}_{-100}	Ω_Λ	0.6906	$0.706^{+0.037}_{-0.040}$	z_{drag}	1059.63	$1061.0^{+2.7}_{-2.7}$
A_{143}^{PS}	65.3	57^{+30}_{-30}	Ω_m	0.3094	$0.294^{+0.040}_{-0.037}$	r_{drag}	146.9	$143.1^{+6.6}_{-6.3}$
A_{217}^{PS}	122.0	105^{+30}_{-40}	σ_8	0.8330	$0.850^{+0.043}_{-0.041}$	k_D	0.14059	$0.1432^{+0.0049}_{-0.0048}$
A_{143}^{CIB}	0.0	—	z_{re}	11.26	$11.8^{+2.5}_{-2.4}$	$100\theta_D$	0.16145	$0.1624^{+0.0017}_{-0.0017}$
A_{217}^{CIB}	24	32^{+20}_{-20}	H_0	68.0	$71.3^{+6.1}_{-5.7}$	z_{eq}	3374	3316^{+140}_{-140}
A_{143}^{tSZ}	5.84	—	$10^9 A_s$	2.213	$2.26^{+0.16}_{-0.15}$	$100\theta_{\text{eq}}$	0.8182	$0.830^{+0.029}_{-0.027}$
$r_{143 \times 217}^{\text{PS}}$	0.913	> 0.717	$\Omega_m h^2$	0.1432	$0.149^{+0.011}_{-0.011}$	$r_{\text{drag}}/D_V(0.57)$	0.07174	$0.0726^{+0.0023}_{-0.0021}$

Best-fit $\chi_{\text{eff}}^2 = 9935.94$; R-1 = 0.00985

χ_{eff}^2 : CMB - lowLike: 2014.32 lowl: -7.58 CamSpec: 7798.23 SN - Union2.1: 130.39

9.29 base_nnu_planck_lowl_lowLike_Union2_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02232	$0.02245^{+0.00075}_{-0.00075}$	$r_{143 \times 217}^{\text{CIB}}$	0.56	—	$\Omega_m h^3$	0.0977	$0.104^{+0.015}_{-0.015}$
$\Omega_c h^2$	0.1189	$0.123^{+0.011}_{-0.010}$	γ^{CIB}	0.556	$0.53^{+0.24}_{-0.26}$	Y_P	0.2490	$0.2529^{+0.0095}_{-0.0094}$
$100\theta_{\text{MC}}$	1.04143	$1.0410^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8364	$1.851^{+0.045}_{-0.048}$
τ	0.0941	$0.096^{+0.030}_{-0.026}$	c_{217}	0.99636	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.69	$13.41^{+0.70}_{-0.69}$
N_{eff}	3.13	$3.44^{+0.74}_{-0.75}$	$\xi^{\text{tSZ-CIB}}$	0.11	—	z_*	1090.08	$1090.6^{+1.3}_{-1.2}$
n_s	0.9714	$0.978^{+0.030}_{-0.030}$	A^{kSZ}	1.50	—	r_*	144.3	$141.7^{+6.3}_{-6.1}$
$\ln(10^{10} A_s)$	3.099	$3.110^{+0.066}_{-0.060}$	β_1^1	0.69	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04150	$1.0409^{+0.0018}_{-0.0017}$
A_{100}^{PS}	148	182^{+100}_{-100}	Ω_Λ	0.7010	$0.708^{+0.033}_{-0.035}$	z_{drag}	1059.89	$1060.7^{+2.6}_{-2.7}$
A_{143}^{PS}	61.6	56^{+30}_{-30}	Ω_m	0.2990	$0.292^{+0.035}_{-0.033}$	r_{drag}	147.0	$144.3^{+6.5}_{-6.3}$
A_{217}^{PS}	118.5	104^{+30}_{-40}	σ_8	0.8299	$0.840^{+0.040}_{-0.038}$	k_D	0.14050	$0.1424^{+0.0048}_{-0.0047}$
A_{143}^{CIB}	0.0	—	z_{re}	11.39	$11.6^{+2.4}_{-2.3}$	$100\theta_D$	0.16139	$0.1621^{+0.0017}_{-0.0016}$
A_{217}^{CIB}	25	31^{+20}_{-20}	H_0	68.9	$70.9^{+5.8}_{-5.4}$	z_{eq}	3336	3307^{+130}_{-130}
A_{143}^{tSZ}	6.41	—	$10^9 A_s$	2.217	$2.24^{+0.15}_{-0.14}$	$100\theta_{\text{eq}}$	0.8257	$0.832^{+0.026}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.907	> 0.713	$\Omega_m h^2$	0.1419	$0.146^{+0.011}_{-0.010}$	$r_{\text{drag}}/D_V(0.57)$	0.07232	$0.0728^{+0.0021}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 9945.70$; R-1 = 0.01268

χ_{eff}^2 : CMB - lowLike: 2014.33 lensing: 9.61 lowl: -8.11 CamSpec: 7799.22 SN - Union2.1: 130.14

9.30 base_nnu_planck_lowl_lowLike_Union2_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02231^{+0.00057}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.397	< 0.834	$\Omega_m h^3$	0.0967	$0.103^{+0.012}_{-0.011}$
$\Omega_c h^2$	0.1190	$0.124^{+0.010}_{-0.0098}$	γ^{CIB}	0.559	$0.54^{+0.24}_{-0.26}$	Y_P	0.2483	$0.2525^{+0.0076}_{-0.0076}$
$100\theta_{\text{MC}}$	1.04141	$1.0409^{+0.0015}_{-0.0014}$	c_{100}	1.00059	$1.00057^{+0.00076}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8359	$1.856^{+0.046}_{-0.047}$
τ	0.0937	$0.094^{+0.028}_{-0.025}$	c_{217}	0.99639	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.76	$13.46^{+0.54}_{-0.53}$
N_{eff}	3.08	$3.41^{+0.61}_{-0.57}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.17	$1090.8^{+1.3}_{-1.2}$
n_s	0.9682	$0.974^{+0.020}_{-0.020}$	A^{kSZ}	0.98	—	r_*	144.6	$141.7^{+5.4}_{-5.3}$
$\ln(10^{10} A_s)$	3.098	$3.109^{+0.060}_{-0.057}$	β_1^1	0.73	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04154	$1.0408^{+0.0018}_{-0.0017}$
A_{100}^{PS}	142	182^{+100}_{-100}	Ω_Λ	0.6947	$0.699^{+0.021}_{-0.022}$	z_{drag}	1059.59	$1060.5^{+2.1}_{-2.1}$
A_{143}^{PS}	60.8	57^{+30}_{-30}	Ω_m	0.3053	$0.301^{+0.022}_{-0.021}$	r_{drag}	147.3	$144.3^{+5.6}_{-5.5}$
A_{217}^{PS}	121.4	105^{+30}_{-40}	σ_8	0.8301	$0.844^{+0.039}_{-0.038}$	k_D	0.14024	$0.1424^{+0.0042}_{-0.0040}$
A_{143}^{CIB}	0.0	—	z_{re}	11.39	$11.5^{+2.3}_{-2.3}$	$100\theta_D$	0.16134	$0.1622^{+0.0015}_{-0.0014}$
A_{217}^{CIB}	24	31^{+20}_{-20}	H_0	68.17	$70.0^{+3.7}_{-3.6}$	z_{eq}	3358	3343^{+83}_{-80}
A_{143}^{tSZ}	7.07	—	$10^9 A_s$	2.214	$2.24^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8212	$0.824^{+0.016}_{-0.016}$
$r_{143 \times 217}^{\text{PS}}$	0.932	> 0.724	$\Omega_m h^2$	0.1419	$0.147^{+0.011}_{-0.0099}$	$r_{\text{drag}}/D_V(0.57)$	0.07197	$0.0722^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9937.43$; R-1 = 0.01296

χ_{eff}^2 : BAO - DR7: 0.82 6DF: 0.04 DR9: 0.45 CMB - lowLike: 2014.39 lowl: -7.76 CamSpec: 7798.71 SN - Union2.1: 130.28

9.31 base_nnu_planck_lowl_lowLike_Union2_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02237	$0.02262^{+0.00058}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.62	—	$\Omega_m h^3$	0.1001	$0.110^{+0.011}_{-0.011}$
$\Omega_c h^2$	0.1204	$0.1276^{+0.0097}_{-0.0093}$	γ^{CIB}	0.558	$0.54^{+0.24}_{-0.25}$	Y_P	0.2506	$0.2568^{+0.0065}_{-0.0067}$
$100\theta_{\text{MC}}$	1.04138	$1.0407^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8430	$1.870^{+0.041}_{-0.041}$
τ	0.0910	$0.0998^{+0.029}_{-0.026}$	c_{217}	0.99644	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.571	$13.14^{+0.47}_{-0.44}$
N_{eff}	3.26	$3.74^{+0.53}_{-0.53}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.26	$1091.0^{+1.3}_{-1.3}$
n_s	0.9750	$0.988^{+0.020}_{-0.020}$	A^{kSZ}	2.31	—	r_*	143.28	$139.2^{+4.7}_{-4.5}$
$\ln(10^{10} A_s)$	3.096	$3.128^{+0.061}_{-0.057}$	β_1^1	0.70	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04136	$1.0404^{+0.0016}_{-0.0016}$
A_{100}^{PS}	165	191^{+100}_{-100}	Ω_Λ	0.7056	$0.715^{+0.025}_{-0.027}$	z_{drag}	1060.20	$1061.7^{+1.8}_{-1.9}$
A_{143}^{PS}	67.8	58^{+30}_{-30}	Ω_m	0.2944	$0.285^{+0.027}_{-0.025}$	r_{drag}	145.93	$141.7^{+4.8}_{-4.6}$
A_{217}^{PS}	117.2	104^{+40}_{-40}	σ_8	0.8304	$0.856^{+0.038}_{-0.036}$	k_D	0.14120	$0.1443^{+0.0036}_{-0.0036}$
A_{143}^{CIB}	0.0	—	z_{re}	11.16	$12.1^{+2.4}_{-2.3}$	$100\theta_D$	0.16171	$0.1628^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	26	33^{+20}_{-20}	H_0	69.80	$72.8^{+3.7}_{-3.7}$	z_{eq}	3319	3284^{+110}_{-100}
A_{143}^{tSZ}	5.43	—	$10^9 A_s$	2.211	$2.28^{+0.14}_{-0.14}$	$100\theta_{\text{eq}}$	0.8290	$0.836^{+0.021}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.873	> 0.712	$\Omega_m h^2$	0.1434	$0.1508^{+0.0098}_{-0.0094}$	$r_{\text{drag}}/D_V(0.57)$	0.07259	$0.0731^{+0.0017}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 9939.09$; R-1 = 0.01739

χ_{eff}^2 : CMB - lowLike: 2014.15 lowl: -8.52 CamSpec: 7800.11 Hubble - HST: 2.79 SN - Union2.1: 130.05

9.32 base_nnu_planck_lowl_lowLike_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02240	$0.02261^{+0.00059}_{-0.00059}$	$r_{143 \times 217}^{\text{CIB}}$	0.669	$0.50^{+0.39}_{-0.44}$	$\Omega_m h^3$	0.1010	$0.110^{+0.011}_{-0.010}$
$\Omega_c h^2$	0.1213	$0.1276^{+0.0096}_{-0.0093}$	γ^{CIB}	0.586	$0.53^{+0.25}_{-0.26}$	Y_P	0.2512	$0.2567^{+0.0065}_{-0.0066}$
$100\theta_{\text{MC}}$	1.04126	$1.0407^{+0.0014}_{-0.0014}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8479	$1.870^{+0.040}_{-0.041}$
τ	0.0904	$0.099^{+0.030}_{-0.027}$	c_{217}	0.99648	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.533	$13.15^{+0.47}_{-0.45}$
N_{eff}	3.30	$3.73^{+0.54}_{-0.51}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	z_*	1090.34	$1091.0^{+1.3}_{-1.3}$
n_s	0.9770	$0.987^{+0.021}_{-0.021}$	A^{kSZ}	0.6	—	r_*	142.83	$139.2^{+4.6}_{-4.4}$
$\ln(10^{10} A_s)$	3.097	$3.127^{+0.062}_{-0.057}$	β_1^1	0.69	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04122	$1.0403^{+0.0016}_{-0.0016}$
A_{100}^{PS}	171	190^{+100}_{-100}	Ω_Λ	0.7051	$0.714^{+0.027}_{-0.029}$	z_{drag}	1060.39	$1061.6^{+1.8}_{-1.9}$
A_{143}^{PS}	71.6	58^{+30}_{-30}	Ω_m	0.2949	$0.286^{+0.029}_{-0.027}$	r_{drag}	145.46	$141.7^{+4.7}_{-4.6}$
A_{217}^{PS}	119.0	104^{+40}_{-40}	σ_8	0.8332	$0.856^{+0.037}_{-0.036}$	k_D	0.14156	$0.1443^{+0.0036}_{-0.0036}$
A_{143}^{CIB}	0.0	—	z_{re}	11.13	$12.0^{+2.4}_{-2.3}$	$100\theta_D$	0.16178	$0.1628^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	27	32^{+20}_{-20}	H_0	69.96	$72.7^{+3.9}_{-3.8}$	z_{eq}	3322	3288^{+110}_{-110}
A_{143}^{tSZ}	4.86	—	$10^9 A_s$	2.214	$2.28^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8285	$0.835^{+0.022}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.922	> 0.719	$\Omega_m h^2$	0.1444	$0.1509^{+0.0097}_{-0.0094}$	$r_{\text{drag}}/D_V(0.57)$	0.07254	$0.0730^{+0.0018}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 9809.00$; R-1 = 0.00810

χ_{eff}^2 : CMB - lowLike: 2014.17 lowl: -8.67 CamSpec: 7800.60 Hubble - HST: 2.57

9.33 base_nnu_planck_lowl_lowLike_HST_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02254	$0.02263^{+0.00059}_{-0.00059}$	$r_{143 \times 217}^{\text{CIB}}$	0.858	$0.50^{+0.39}_{-0.44}$	$\Omega_m h^3$	0.1005	$0.108^{+0.011}_{-0.0099}$
$\Omega_c h^2$	0.1196	$0.1255^{+0.0089}_{-0.0083}$	γ^{CIB}	0.569	$0.53^{+0.25}_{-0.26}$	Y_P	0.2508	$0.2556^{+0.0065}_{-0.0063}$
$100\theta_{\text{MC}}$	1.04147	$1.0408^{+0.0014}_{-0.0014}$	c_{100}	1.00062	$1.00059^{+0.00081}_{-0.00080}$	$10^9 A_s e^{-2\tau}$	1.8414	$1.862^{+0.037}_{-0.037}$
τ	0.0919	$0.099^{+0.029}_{-0.026}$	c_{217}	0.99645	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.541	$13.21^{+0.45}_{-0.45}$
N_{eff}	3.26	$3.64^{+0.53}_{-0.49}$	$\xi^{\text{tSZ-CIB}}$	0.25	—	z_*	1089.99	$1090.7^{+1.2}_{-1.2}$
n_s	0.9790	$0.986^{+0.020}_{-0.020}$	A^{kSZ}	1.35	—	r_*	143.32	$140.1^{+4.3}_{-4.3}$
$\ln(10^{10} A_s)$	3.097	$3.122^{+0.057}_{-0.052}$	β_1^1	0.69	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04144	$1.0405^{+0.0015}_{-0.0015}$
A_{100}^{PS}	154	187^{+100}_{-100}	Ω_Λ	0.7114	$0.717^{+0.024}_{-0.026}$	z_{drag}	1060.54	$1061.5^{+1.9}_{-1.9}$
A_{143}^{PS}	64.0	57^{+30}_{-30}	Ω_m	0.2886	$0.283^{+0.026}_{-0.024}$	r_{drag}	145.92	$142.6^{+4.5}_{-4.5}$
A_{217}^{PS}	118.8	104^{+30}_{-40}	σ_8	0.8292	$0.849^{+0.031}_{-0.031}$	k_D	0.14132	$0.1436^{+0.0035}_{-0.0034}$
A_{143}^{CIB}	0.0	—	z_{re}	11.17	$11.9^{+2.3}_{-2.2}$	$100\theta_D$	0.16154	$0.1625^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	25	32^{+20}_{-20}	H_0	70.34	$72.5^{+3.8}_{-3.7}$	z_{eq}	3301	3277^{+98}_{-96}
A_{143}^{tSZ}	5.80	—	$10^9 A_s$	2.213	$2.27^{+0.13}_{-0.12}$	$100\theta_{\text{eq}}$	0.8329	$0.838^{+0.020}_{-0.019}$
$r_{143 \times 217}^{\text{PS}}$	0.929	> 0.720	$\Omega_m h^2$	0.1428	$0.1488^{+0.0090}_{-0.0084}$	$r_{\text{drag}}/D_V(0.57)$	0.07292	$0.0732^{+0.0016}_{-0.0015}$

Best-fit $\chi_{\text{eff}}^2 = 9818.60$; R-1 = 0.00899

χ_{eff}^2 : CMB - lowLike: 2014.12 lensing: 9.47 lowl: -8.81 CamSpec: 7801.29 Hubble - HST: 2.10

9.34 base_nnu_planck_lowl_lowLike_HST_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02234	$0.02246^{+0.00052}_{-0.00051}$	$r_{143 \times 217}^{\text{CIB}}$	0.612	$0.49^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.0979	$0.107^{+0.010}_{-0.0095}$
$\Omega_c h^2$	0.1189	$0.1274^{+0.0092}_{-0.0088}$	γ^{CIB}	0.557	$0.54^{+0.24}_{-0.26}$	Y_P	0.2490	$0.2552^{+0.0061}_{-0.0060}$
$100\theta_{\text{MC}}$	1.04156	$1.0406^{+0.0014}_{-0.0013}$	c_{100}	1.00060	$1.00058^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8361	$1.870^{+0.039}_{-0.039}$
τ	0.0934	$0.095^{+0.027}_{-0.025}$	c_{217}	0.99644	$0.9965^{+0.0027}_{-0.0026}$	Age/Gyr	13.683	$13.27^{+0.42}_{-0.42}$
N_{eff}	3.137	$3.62^{+0.49}_{-0.47}$	$\xi^{\text{tSZ-CIB}}$	0.12	—	z_*	1090.06	$1091.1^{+1.2}_{-1.2}$
n_s	0.9716	$0.981^{+0.017}_{-0.017}$	A^{kSZ}	1.19	—	r_*	144.27	$139.9^{+4.4}_{-4.3}$
$\ln(10^{10} A_s)$	3.097	$3.119^{+0.059}_{-0.054}$	β_1^1	0.65	$0.7^{+1.1}_{-1.1}$	$100\theta_*$	1.04163	$1.0404^{+0.0016}_{-0.0016}$
A_{100}^{PS}	166	188^{+100}_{-100}	Ω_Λ	0.7018	$0.704^{+0.018}_{-0.020}$	z_{drag}	1059.93	$1061.2^{+1.7}_{-1.7}$
A_{143}^{PS}	68.1	58^{+30}_{-30}	Ω_m	0.2982	$0.296^{+0.020}_{-0.018}$	r_{drag}	146.95	$142.4^{+4.5}_{-4.4}$
A_{217}^{PS}	117.6	105^{+30}_{-40}	σ_8	0.8285	$0.853^{+0.036}_{-0.034}$	k_D	0.14054	$0.1438^{+0.0034}_{-0.0034}$
A_{143}^{CIB}	0.0	—	z_{re}	11.32	$11.7^{+2.3}_{-2.3}$	$100\theta_D$	0.16139	$0.1626^{+0.0013}_{-0.0013}$
A_{217}^{CIB}	26	32^{+20}_{-20}	H_0	68.99	$71.3^{+3.0}_{-2.9}$	z_{eq}	3335	3325^{+76}_{-73}
A_{143}^{tSZ}	4.95	—	$10^9 A_s$	2.213	$2.26^{+0.14}_{-0.12}$	$100\theta_{\text{eq}}$	0.8260	$0.828^{+0.014}_{-0.015}$
$r_{143 \times 217}^{\text{PS}}$	0.887	> 0.726	$\Omega_m h^2$	0.1419	$0.1505^{+0.0092}_{-0.0089}$	$r_{\text{drag}}/D_V(0.57)$	0.07238	$0.0724^{+0.0011}_{-0.0011}$

Best-fit $\chi_{\text{eff}}^2 = 9811.95$; R-1 = 0.01612

χ_{eff}^2 : BAO - DR9: 1.04 DR7: 0.26 6DF: 0.15 CMB - lowLike: 2014.28 lowl: -8.18 CamSpec: 7799.87 Hubble - HST: 4.02

10 nnu+meffsterile

10.1 base_nnu_meffsterile_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02209	$0.02230^{+0.00068}_{-0.00065}$	β_1^1	0.47	$0.5^{+1.1}_{-1.1}$	z_{re}	11.49	$11.6^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.1224	$0.118^{+0.017}_{-0.029}$	$A_{148}^{\text{PS, ACT}}$	10.49	$10.5^{+1.2}_{-1.1}$	H_0	67.39	$68.5^{+4.8}_{-3.9}$
$100\theta_{\text{MC}}$	1.04098	$1.0410^{+0.0014}_{-0.0015}$	$A_{218}^{\text{PS, ACT}}$	76.4	$76.6^{+8.4}_{-9.0}$	$10^9 A_s$	2.223	$2.24^{+0.14}_{-0.14}$
τ	0.0931	$0.095^{+0.030}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.32	$7.49^{+2.9}_{-2.8}$	$\Omega_m h^2$	0.1459	$0.148^{+0.011}_{-0.0099}$
$m_{\nu, \text{sterile}}^{\text{eff}}$	0.07	—	$A_{150}^{\text{PS, SPT}}$	9.96	$9.94^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.0983	< 0.111
N_{eff}	3.187	< 3.85	$A_{220}^{\text{PS, SPT}}$	73.5	74^{+9}_{-9}	Y_{P}	0.2496	< 0.258
n_s	0.9619	$0.968^{+0.027}_{-0.023}$	$r_{95 \times 150}^{\text{PS}}$	0.809	> 0.685	$10^9 A_s e^{-2\tau}$	1.8451	$1.849^{+0.042}_{-0.039}$
$\ln(10^{10} A_s)$	3.101	$3.107^{+0.063}_{-0.061}$	$r_{95 \times 220}^{\text{PS}}$	0.587	$0.59^{+0.24}_{-0.23}$	$\Omega_\nu h^2$	0.0014	< 0.0280
A_{100}^{PS}	213	220^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9219	$0.939^{+0.047}_{-0.045}$	Age/Gyr	13.717	$13.58^{+0.38}_{-0.49}$
A_{143}^{PS}	75.9	77^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.414	$0.44^{+0.36}_{-0.39}$	z_*	1090.76	$1090.8^{+1.3}_{-1.2}$
A_{217}^{PS}	61.7	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.39}_{-0.38}$	r_*	143.27	$142.1^{+4.0}_{-4.8}$
A_{143}^{CIB}	3.09	$3.23^{+1.6}_{-1.5}$	y_{148}^{ACTs}	0.9904	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04106	$1.0410^{+0.0016}_{-0.0017}$
A_{217}^{CIB}	50.5	49^{+10}_{-9}	y_{217}^{ACTs}	1.0025	$1.003^{+0.026}_{-0.026}$	z_{drag}	1059.67	$1060.4^{+2.2}_{-2.0}$
A_{143}^{tSZ}	3.42	< 4.94	y_{148}^{ACTe}	0.9866	$0.986^{+0.015}_{-0.014}$	r_{drag}	146.01	$144.8^{+4.2}_{-4.9}$
$r_{143 \times 217}^{\text{PS}}$	0.824	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9616	$0.962^{+0.020}_{-0.020}$	k_{D}	0.14118	$0.1422^{+0.0038}_{-0.0033}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{95}^{SPT}	0.9809	$0.980^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16170	$0.1619^{+0.0014}_{-0.0012}$
γ^{CIB}	0.639	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9834	$0.984^{+0.020}_{-0.019}$	z_{eq}	3389	3233^{+290}_{-570}
c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00078}$	y_{220}^{SPT}	1.0170	$1.021^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.815	$0.852^{+0.14}_{-0.066}$
c_{217}	0.99742	$0.9974^{+0.0026}_{-0.0027}$	Ω_Λ	0.6788	$0.684^{+0.041}_{-0.043}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07108	$0.0714^{+0.0024}_{-0.0022}$
$\xi^{\text{tSZ-CIB}}$	0.16	—	Ω_{m}	0.3212	$0.316^{+0.043}_{-0.041}$			
A^{kSZ}	4.20	> 1.90	σ_8	0.823	$0.810^{+0.059}_{-0.067}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.13$; R-1 = 0.02818

χ_{eff}^2 : CMB - lowLike: 2014.57 lowl: -6.64 CamSpec: 7808.01 highL: 693.05

10.2 base_nnu_meffsterile_planck_lowl_lowLike_highL_post_lensing

Best-fit $\chi^2_{\text{eff}} = 10517.04$

χ^2_{eff} : CMB - lowLike: 2014.43 lensing: 9.13 lowl: -7.66 CamSpec: 7808.49 highL: 692.51

10.3 base_nnu_meffsterile_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02232^{+0.00058}_{-0.00056}$	β_1^1	0.38	$0.4^{+1.1}_{-1.1}$	z_{re}	11.60	$11.6^{+2.5}_{-2.3}$
$\Omega_c h^2$	0.1200	$0.115^{+0.017}_{-0.028}$	$A_{148}^{\text{PS, ACT}}$	10.30	$10.5^{+1.2}_{-1.1}$	H_0	68.35	$68.9^{+3.1}_{-2.6}$
$100\theta_{\text{MC}}$	1.04136	$1.0412^{+0.0013}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.3	$76.7^{+8.5}_{-9.1}$	$10^9 A_s$	2.222	$2.23^{+0.14}_{-0.13}$
τ	0.0958	$0.096^{+0.029}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	7.37	$7.52^{+2.9}_{-2.8}$	$\Omega_m h^2$	0.1428	$0.1456^{+0.0093}_{-0.0077}$
$m_{\nu, \text{sterile}}^{\text{eff}}$	0.00	—	$A_{150}^{\text{PS, SPT}}$	9.80	$9.96^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.0976	< 0.109
N_{eff}	3.129	< 3.75	$A_{220}^{\text{PS, SPT}}$	73.1	74^{+9}_{-9}	Y_{P}	0.24888	< 0.257
n_s	0.9645	$0.969^{+0.021}_{-0.019}$	$r_{95 \times 150}^{\text{PS}}$	0.792	> 0.685	$10^9 A_s e^{-2\tau}$	1.8347	$1.842^{+0.039}_{-0.033}$
$\ln(10^{10} A_s)$	3.101	$3.105^{+0.063}_{-0.060}$	$r_{95 \times 220}^{\text{PS}}$	0.546	$0.59^{+0.24}_{-0.23}$	$\Omega_\nu h^2$	0.0006	< 0.0290
A_{100}^{PS}	202	217^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9126	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.714	$13.60^{+0.32}_{-0.43}$
A_{143}^{PS}	73.2	76^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.44^{+0.36}_{-0.39}$	z_*	1090.30	$1090.5^{+1.1}_{-1.0}$
A_{217}^{PS}	61.1	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.838	$0.85^{+0.39}_{-0.38}$	r_*	144.14	$142.8^{+3.4}_{-4.4}$
A_{143}^{CIB}	3.15	$3.22^{+1.6}_{-1.5}$	y_{148}^{ACTs}	0.9912	$0.991^{+0.015}_{-0.014}$	$100\theta_*$	1.04144	$1.0412^{+0.0015}_{-0.0016}$
A_{217}^{CIB}	51.8	49^{+10}_{-9}	y_{217}^{ACTs}	1.0029	$1.004^{+0.026}_{-0.026}$	z_{drag}	1059.70	$1060.2^{+2.0}_{-1.7}$
A_{143}^{tSZ}	4.42	< 5.00	y_{148}^{ACTe}	0.9875	$0.987^{+0.014}_{-0.014}$	r_{drag}	146.85	$145.5^{+3.5}_{-4.6}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9611	$0.962^{+0.021}_{-0.020}$	k_{D}	0.14058	$0.1416^{+0.0035}_{-0.0028}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{95}^{SPT}	0.9837	$0.981^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16147	$0.1618^{+0.0013}_{-0.0011}$
γ^{CIB}	0.653	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9840	$0.985^{+0.019}_{-0.019}$	z_{eq}	3360	3186^{+290}_{-560}
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	y_{220}^{SPT}	1.0162	$1.023^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.821	$0.862^{+0.14}_{-0.069}$
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.6942	$0.693^{+0.021}_{-0.023}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07194	$0.0718^{+0.0012}_{-0.0012}$
$\xi^{\text{tSZ-CIB}}$	0.02	—	Ω_{m}	0.3058	$0.307^{+0.023}_{-0.021}$			
A^{kSZ}	2.24	> 1.82	σ_8	0.832	$0.812^{+0.053}_{-0.057}$			

Best-fit $\chi_{\text{eff}}^2 = 10510.31$; R-1 = 0.03854

χ_{eff}^2 : BAO - DR7: 0.88 DR9: 0.42 6DF: 0.06 CMB - lowLike: 2014.57 lowl: -7.02 CamSpec: 7808.35 highL: 692.95

10.4 base_nnu_meffsterile_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02236	$0.02260^{+0.00060}_{-0.00059}$	β_1^1	0.39	$0.5^{+1.1}_{-1.1}$	z_{re}	11.41	$12.2^{+2.3}_{-2.4}$
$\Omega_c h^2$	0.1212	$0.124^{+0.016}_{-0.036}$	$A_{148}^{\text{PS, ACT}}$	10.49	$10.5^{+1.2}_{-1.2}$	H_0	69.81	$71.3^{+4.2}_{-4.2}$
$100\theta_{\text{MC}}$	1.04125	$1.0409^{+0.0014}_{-0.0015}$	$A_{218}^{\text{PS, ACT}}$	76.7	77^{+9}_{-9}	$10^9 A_s$	2.219	$2.28^{+0.14}_{-0.14}$
τ	0.0935	$0.101^{+0.028}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.24	$7.44^{+2.9}_{-2.7}$	$\Omega_m h^2$	0.1442	$0.150^{+0.011}_{-0.011}$
$m_{\nu, \text{sterile}}^{\text{eff}}$	0.00	—	$A_{150}^{\text{PS, SPT}}$	9.97	$9.90^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.1007	$0.107^{+0.011}_{-0.012}$
N_{eff}	3.29	< 4.10	$A_{220}^{\text{PS, SPT}}$	73.8	74^{+9}_{-9}	Y_{P}	0.2510	$0.2551^{+0.0064}_{-0.0077}$
n_s	0.9713	$0.983^{+0.023}_{-0.023}$	$r_{95 \times 150}^{\text{PS}}$	0.814	> 0.685	$10^9 A_s e^{-2\tau}$	1.8409	$1.858^{+0.045}_{-0.046}$
$\ln(10^{10} A_s)$	3.100	$3.125^{+0.061}_{-0.062}$	$r_{95 \times 220}^{\text{PS}}$	0.588	$0.60^{+0.24}_{-0.23}$	$\Omega_\nu h^2$	0.0006	< 0.0145
A_{100}^{PS}	213	225^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9211	$0.939^{+0.046}_{-0.045}$	Age/Gyr	13.55	$13.29^{+0.54}_{-0.49}$
A_{143}^{PS}	75.8	79^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.44^{+0.36}_{-0.39}$	z_*	1090.38	$1090.8^{+1.3}_{-1.3}$
A_{217}^{PS}	62.5	65^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.85^{+0.39}_{-0.39}$	r_*	142.9	$140.3^{+5.6}_{-4.8}$
A_{143}^{CIB}	3.11	$3.23^{+1.6}_{-1.5}$	y_{148}^{ACTs}	0.9904	$0.989^{+0.015}_{-0.014}$	$100\theta_*$	1.04122	$1.0407^{+0.0017}_{-0.0017}$
A_{217}^{CIB}	50.1	49^{+10}_{-9}	y_{217}^{ACTs}	1.0023	$1.002^{+0.027}_{-0.026}$	z_{drag}	1060.28	$1061.4^{+2.1}_{-2.1}$
A_{143}^{tSZ}	3.49	< 4.72	y_{148}^{ACTe}	0.9865	$0.985^{+0.015}_{-0.014}$	r_{drag}	145.6	$142.8^{+5.8}_{-4.9}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.83^{+0.14}_{-0.12}$	y_{217}^{ACTe}	0.9611	$0.961^{+0.020}_{-0.020}$	k_{D}	0.14143	$0.1436^{+0.0038}_{-0.0043}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.854	y_{95}^{SPT}	0.9804	$0.978^{+0.039}_{-0.038}$	$100\theta_{\text{D}}$	0.16180	$0.1624^{+0.0014}_{-0.0015}$
γ^{CIB}	0.631	$0.62^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9834	$0.982^{+0.020}_{-0.020}$	z_{eq}	3324	3255^{+210}_{-570}
c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00077}$	y_{220}^{SPT}	1.0179	$1.020^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.828	$0.844^{+0.14}_{-0.046}$
c_{217}	0.99732	$0.9974^{+0.0026}_{-0.0027}$	Ω_Λ	0.7041	$0.705^{+0.032}_{-0.033}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07249	$0.0725^{+0.0020}_{-0.0019}$
$\xi^{\text{tSZ-CIB}}$	0.16	—	Ω_m	0.2959	$0.295^{+0.033}_{-0.032}$			
A^{kSZ}	4.10	> 2.17	σ_8	0.833	$0.828^{+0.055}_{-0.059}$			

Best-fit $\chi_{\text{eff}}^2 = 10511.56$; R-1 = 0.07211

χ_{eff}^2 : CMB - lowLike: 2014.27 lowl: -8.01 CamSpec: 7809.06 highL: 693.27 Hubble - HST: 2.77

11 nnu+mnu

11.1 base_nnu_mnu_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.02221^{+0.00089}_{-0.00090}$	$r_{143 \times 217}^{\text{CIB}}$	0.598	< 0.835	Y_P	0.2483	$0.2527^{+0.0099}_{-0.0097}$
$\Omega_c h^2$	0.1203	$0.125^{+0.011}_{-0.011}$	γ^{CIB}	0.553	$0.54^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8425	$1.859^{+0.047}_{-0.048}$
$100\theta_{\text{MC}}$	1.04132	$1.0406^{+0.0015}_{-0.0015}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	$\Omega_\nu h^2$	0.00008	< 0.00925
τ	0.0918	$0.094^{+0.030}_{-0.029}$	c_{217}	0.99639	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.74	$13.57^{+0.88}_{-0.81}$
Σm_ν	0.008	< 0.860	$\xi^{\text{tSZ-CIB}}$	0.10	—	z_*	1090.38	$1091.1^{+1.5}_{-1.5}$
N_{eff}	3.09	$3.43^{+0.79}_{-0.71}$	A^{kSZ}	0.4	—	r_*	144.3	$141.3^{+6.1}_{-6.1}$
n_s	0.9652	$0.972^{+0.034}_{-0.034}$	β_1^1	0.75	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04140	$1.0406^{+0.0018}_{-0.0017}$
$\ln(10^{10} A_s)$	3.097	$3.110^{+0.068}_{-0.066}$	Ω_Λ	0.693	$0.668^{+0.083}_{-0.11}$	z_{drag}	1059.51	$1060.4^{+2.9}_{-2.8}$
A_{100}^{PS}	141	187^{+100}_{-100}	Ω_m	0.307	$0.332^{+0.11}_{-0.083}$	r_{drag}	147.1	$144.0^{+6.4}_{-6.4}$
A_{143}^{PS}	61.9	57^{+30}_{-30}	σ_8	0.846	$0.800^{+0.098}_{-0.13}$	k_D	0.14046	$0.1426^{+0.0049}_{-0.0046}$
A_{217}^{PS}	123.8	105^{+40}_{-40}	z_{re}	11.27	$11.6^{+2.5}_{-2.4}$	$100\theta_D$	0.16140	$0.1623^{+0.0017}_{-0.0016}$
A_{143}^{CIB}	0.0	—	H_0	68.1	68^{+9}_{-10}	z_{eq}	3386	3357^{+170}_{-160}
A_{217}^{CIB}	24	32^{+20}_{-20}	$10^9 A_s$	2.214	$2.24^{+0.15}_{-0.15}$	$100\theta_{\text{eq}}$	0.8158	$0.822^{+0.033}_{-0.031}$
A_{143}^{tSZ}	7.40	—	$\Omega_m h^2$	0.1426	$0.151^{+0.013}_{-0.012}$	$r_{\text{drag}}/D_V(0.57)$	0.07186	$0.0708^{+0.0041}_{-0.0049}$
$r_{143 \times 217}^{\text{PS}}$	0.921	> 0.727	$\Omega_m h^3$	0.0971	$0.102^{+0.017}_{-0.016}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.01$; R-1 =0.01063

χ_{eff}^2 : CMB - lowLike: 2014.29 lowl: -7.15 CamSpec: 7797.32

11.2 base_nnu_mnu_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02204^{+0.00094}_{-0.00095}$	$r_{143 \times 217}^{\text{CIB}}$	0.282	< 0.833	Y_P	0.2482	$0.2505^{+0.0097}_{-0.0096}$
$\Omega_c h^2$	0.1181	$0.124^{+0.010}_{-0.0095}$	γ^{CIB}	0.541	$0.54^{+0.24}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8327	$1.851^{+0.044}_{-0.046}$
$100\theta_{\text{MC}}$	1.04149	$1.0406^{+0.0016}_{-0.0015}$	c_{100}	1.00060	$1.00058^{+0.00078}_{-0.00077}$	$\Omega_\nu h^2$	0.0003	< 0.0120
τ	0.0937	$0.094^{+0.029}_{-0.029}$	c_{217}	0.99633	$0.9965^{+0.0027}_{-0.0026}$	Age/Gyr	13.73	$13.83^{+0.87}_{-0.87}$
Σm_ν	0.03	< 1.11	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.97	$1091.1^{+1.7}_{-1.6}$
N_{eff}	3.08	$3.27^{+0.74}_{-0.70}$	A^{kSZ}	0.6	—	r_*	144.8	$142.5^{+5.8}_{-6.0}$
n_s	0.9696	$0.963^{+0.036}_{-0.035}$	β_1^1	0.66	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04160	$1.0408^{+0.0017}_{-0.0017}$
$\ln(10^{10} A_s)$	3.096	$3.107^{+0.065}_{-0.065}$	Ω_Λ	0.703	$0.63^{+0.11}_{-0.14}$	z_{drag}	1059.74	$1059.8^{+2.9}_{-2.9}$
A_{100}^{PS}	138	183^{+100}_{-100}	Ω_m	0.297	$0.37^{+0.14}_{-0.11}$	r_{drag}	147.5	$145.2^{+6.0}_{-6.2}$
A_{143}^{PS}	60.1	56^{+30}_{-30}	σ_8	0.837	$0.76^{+0.12}_{-0.13}$	k_D	0.14016	$0.1418^{+0.0046}_{-0.0044}$
A_{217}^{PS}	120.2	105^{+40}_{-40}	z_{re}	11.32	$11.7^{+2.5}_{-2.4}$	$100\theta_D$	0.16123	$0.1619^{+0.0017}_{-0.0016}$
A_{143}^{CIB}	0.0	—	H_0	68.9	65^{+9}_{-10}	z_{eq}	3343	3393^{+170}_{-170}
A_{217}^{CIB}	24	31^{+20}_{-20}	$10^9 A_s$	2.210	$2.24^{+0.15}_{-0.15}$	$100\theta_{\text{eq}}$	0.8243	$0.815^{+0.033}_{-0.033}$
A_{143}^{tSZ}	7.20	—	$\Omega_m h^2$	0.1407	$0.151^{+0.014}_{-0.013}$	$r_{\text{drag}}/D_V(0.57)$	0.0725	$0.0693^{+0.0050}_{-0.0054}$
$r_{143 \times 217}^{\text{PS}}$	0.889	> 0.726	$\Omega_m h^3$	0.0969	$0.098^{+0.016}_{-0.015}$			

Best-fit $\chi_{\text{eff}}^2 = 9815.61$; R-1 = 0.03623

χ_{eff}^2 : CMB - lowLike: 2014.27 lensing: 9.90 lowl: -7.87 CamSpec: 7798.68

11.3 base_nnu_mnu_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02233^{+0.00058}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.767	< 0.833	Y_P	0.2479	$0.2529^{+0.0077}_{-0.0076}$
$\Omega_c h^2$	0.1193	$0.1245^{+0.0099}_{-0.010}$	γ^{CIB}	0.592	$0.54^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8379	$1.857^{+0.043}_{-0.044}$
$100\theta_{\text{MC}}$	1.04139	$1.0408^{+0.0015}_{-0.0014}$	c_{100}	1.00061	$1.00058^{+0.00077}_{-0.00077}$	$\Omega_\nu h^2$	0.00000	< 0.00366
τ	0.0930	$0.095^{+0.028}_{-0.027}$	c_{217}	0.99650	$0.9965^{+0.0027}_{-0.0026}$	Age/Gyr	13.77	$13.46^{+0.53}_{-0.52}$
Σm_ν	0.000	< 0.340	$\xi^{\text{tSZ-CIB}}$	0.42	—	z_*	1090.28	$1090.9^{+1.3}_{-1.2}$
N_{eff}	3.06	$3.44^{+0.62}_{-0.57}$	A^{kSZ}	0.6	—	r_*	144.7	$141.5^{+5.2}_{-5.2}$
n_s	0.9651	$0.975^{+0.022}_{-0.021}$	β_1^1	0.68	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04150	$1.0408^{+0.0017}_{-0.0016}$
$\ln(10^{10} A_s)$	3.097	$3.110^{+0.063}_{-0.057}$	Ω_Λ	0.6957	$0.694^{+0.023}_{-0.025}$	z_{drag}	1059.40	$1060.6^{+2.1}_{-2.1}$
A_{100}^{PS}	166	184^{+100}_{-100}	Ω_m	0.3043	$0.306^{+0.025}_{-0.023}$	r_{drag}	147.5	$144.1^{+5.4}_{-5.4}$
A_{143}^{PS}	68.5	57^{+30}_{-30}	σ_8	0.845	$0.830^{+0.054}_{-0.059}$	k_D	0.14011	$0.1425^{+0.0041}_{-0.0039}$
A_{217}^{PS}	117.9	105^{+30}_{-40}	z_{re}	11.35	$11.6^{+2.5}_{-2.3}$	$100\theta_D$	0.16134	$0.1622^{+0.0015}_{-0.0014}$
A_{143}^{CIB}	0.0	—	H_0	68.18	$69.7^{+3.7}_{-3.5}$	z_{eq}	3376	3333^{+91}_{-99}
A_{217}^{CIB}	26	31^{+20}_{-20}	$10^9 A_s$	2.214	$2.24^{+0.14}_{-0.14}$	$100\theta_{\text{eq}}$	0.8177	$0.826^{+0.019}_{-0.019}$
A_{143}^{tSZ}	4.68	—	$\Omega_m h^2$	0.1415	$0.148^{+0.011}_{-0.011}$	$r_{\text{drag}}/D_V(0.57)$	0.07202	$0.0719^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.953	> 0.728	$\Omega_m h^3$	0.0964	$0.103^{+0.012}_{-0.012}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.78$; R-1 = 0.01208

χ_{eff}^2 : BAO - DR9: 0.51 DR7: 0.73 6DF: 0.04 CMB - lowLike: 2014.33 lowl: -7.16 CamSpec: 7798.03

11.4 base_nnu_mnu_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02259	$0.02261^{+0.00061}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.694	$0.51^{+0.39}_{-0.44}$	Y_P	0.2590	$0.2569^{+0.0069}_{-0.0067}$
$\Omega_c h^2$	0.1307	$0.128^{+0.010}_{-0.0091}$	γ^{CIB}	0.512	$0.54^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8769	$1.871^{+0.041}_{-0.040}$
$100\theta_{\text{MC}}$	1.04037	$1.0406^{+0.0014}_{-0.0014}$	c_{100}	1.00058	$1.00058^{+0.00078}_{-0.00078}$	$\Omega_\nu h^2$	0.00000	< 0.00376
τ	0.0853	$0.0995^{+0.030}_{-0.029}$	c_{217}	0.99638	$0.9966^{+0.0027}_{-0.0027}$	Age/Gyr	12.969	$13.16^{+0.46}_{-0.46}$
Σm_ν	0.000	< 0.349	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.49	$1091.1^{+1.3}_{-1.3}$
N_{eff}	3.92	$3.75^{+0.57}_{-0.52}$	A^{kSZ}	10.0	—	r_*	137.61	$139.1^{+4.6}_{-4.8}$
n_s	0.9864	$0.988^{+0.021}_{-0.021}$	β_1^1	0.52	$0.7^{+1.1}_{-1.1}$	$100\theta_*$	1.03990	$1.0403^{+0.0016}_{-0.0016}$
$\ln(10^{10} A_s)$	3.103	$3.128^{+0.063}_{-0.063}$	Ω_Λ	0.7211	$0.709^{+0.033}_{-0.035}$	z_{drag}	1061.95	$1061.7^{+1.9}_{-1.9}$
A_{100}^{PS}	175	194^{+100}_{-100}	Ω_m	0.2789	$0.291^{+0.035}_{-0.033}$	r_{drag}	140.11	$141.6^{+4.8}_{-4.9}$
A_{143}^{PS}	19.6	58^{+30}_{-30}	σ_8	0.862	$0.844^{+0.053}_{-0.059}$	k_D	0.14534	$0.1444^{+0.0039}_{-0.0036}$
A_{217}^{PS}	83.4	104^{+40}_{-40}	z_{re}	10.91	$12.1^{+2.5}_{-2.4}$	$100\theta_D$	0.16334	$0.1628^{+0.0014}_{-0.0013}$
A_{143}^{CIB}	17.6	—	H_0	74.14	$72.3^{+4.0}_{-4.0}$	z_{eq}	3278	3285^{+110}_{-110}
A_{217}^{CIB}	40.2	33^{+20}_{-20}	$10^9 A_s$	2.226	$2.28^{+0.14}_{-0.14}$	$100\theta_{\text{eq}}$	0.8370	$0.836^{+0.022}_{-0.022}$
A_{143}^{tSZ}	10.0	—	$\Omega_m h^2$	0.1533	$0.152^{+0.011}_{-0.011}$	$r_{\text{drag}}/D_V(0.57)$	0.07342	$0.0728^{+0.0020}_{-0.0021}$
$r_{143 \times 217}^{\text{PS}}$	0.897	> 0.721	$\Omega_m h^3$	0.1137	$0.110^{+0.011}_{-0.011}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.19$; R-1 = 0.01374

χ_{eff}^2 : CMB - lowLike: 2014.16 lowl: -9.05 CamSpec: 7800.18 Hubble - HST: 0.01

11.5 base_nnu_mnu_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02220^{+0.00082}_{-0.00083}$	β_1^1	0.59	$0.5^{+1.1}_{-1.1}$	z_{re}	11.36	$11.6^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.1232	$0.1233^{+0.0095}_{-0.0093}$	$A_{148}^{\text{PS, ACT}}$	10.21	$10.5^{+1.2}_{-1.1}$	H_0	68.6	$67.8^{+7.3}_{-8.0}$
$100\theta_{\text{MC}}$	1.04090	$1.0409^{+0.0015}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	75.7	77^{+9}_{-9}	$10^9 A_s$	2.224	$2.23^{+0.15}_{-0.14}$
τ	0.0919	$0.094^{+0.029}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	7.12	$7.51^{+2.9}_{-2.8}$	$\Omega_m h^2$	0.1456	$0.148^{+0.011}_{-0.010}$
Σm_ν	0.014	< 0.598	$A_{150}^{\text{PS, SPT}}$	9.67	$9.96^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.0999	$0.100^{+0.014}_{-0.014}$
N_{eff}	3.23	$3.29^{+0.67}_{-0.64}$	$A_{220}^{\text{PS, SPT}}$	72.7	74^{+9}_{-9}	Y_{P}	0.2502	$0.2508^{+0.0087}_{-0.0090}$
n_s	0.9635	$0.966^{+0.031}_{-0.032}$	$r_{95 \times 150}^{\text{PS}}$	0.812	> 0.682	$10^9 A_s e^{-2\tau}$	1.8510	$1.848^{+0.043}_{-0.047}$
$\ln(10^{10} A_s)$	3.102	$3.105^{+0.067}_{-0.062}$	$r_{95 \times 220}^{\text{PS}}$	0.569	$0.59^{+0.24}_{-0.23}$	$\Omega_\nu h^2$	0.00016	< 0.00643
A_{100}^{PS}	215	221^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9094	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.62	$13.65^{+0.78}_{-0.75}$
A_{143}^{PS}	74.7	76^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.460	$0.44^{+0.36}_{-0.39}$	z_*	1090.74	$1090.8^{+1.3}_{-1.2}$
A_{217}^{PS}	64.0	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.850	$0.85^{+0.38}_{-0.39}$	r_*	142.9	$142.6^{+5.8}_{-5.4}$
A_{143}^{CIB}	3.45	$3.23^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9902	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04091	$1.0410^{+0.0017}_{-0.0017}$
A_{217}^{CIB}	52.4	49^{+10}_{-9}	y_{217}^{ACTs}	0.9991	$1.003^{+0.027}_{-0.026}$	z_{drag}	1059.93	$1060.1^{+2.7}_{-2.7}$
A_{143}^{tSZ}	5.07	< 4.91	y_{148}^{ACTe}	0.9856	$0.987^{+0.015}_{-0.014}$	r_{drag}	145.6	$145.3^{+6.1}_{-5.7}$
$r_{143 \times 217}^{\text{PS}}$	0.821	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9574	$0.962^{+0.021}_{-0.020}$	k_{D}	0.14153	$0.1417^{+0.0043}_{-0.0044}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{95}^{SPT}	0.9831	$0.980^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16174	$0.1619^{+0.0014}_{-0.0014}$
γ^{CIB}	0.655	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9817	$0.984^{+0.020}_{-0.019}$	z_{eq}	3392	3369^{+160}_{-150}
c_{100}	1.00060	$1.00058^{+0.00077}_{-0.00078}$	y_{220}^{SPT}	1.0143	$1.021^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8147	$0.819^{+0.030}_{-0.029}$
c_{217}	0.99729	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.691	$0.676^{+0.068}_{-0.083}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07170	$0.0711^{+0.0034}_{-0.0040}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_{m}	0.309	$0.324^{+0.083}_{-0.068}$			
A^{kSZ}	1.15	$5.76^{+4.1}_{-4.1}$	σ_8	0.851	$0.812^{+0.080}_{-0.10}$			

Best-fit $\chi_{\text{eff}}^2 = 10508.59$; R-1 = 0.00930

χ_{eff}^2 : CMB - lowLike: 2014.34 lowl: -6.53 CamSpec: 7806.50 highL: 694.08

11.6 base_nnu_mnu_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02234	$0.02210^{+0.00089}_{-0.00095}$	β_1^1	0.45	$0.4^{+1.1}_{-1.1}$	z_{re}	11.34	$11.5^{+2.4}_{-2.3}$
$\Omega_c h^2$	0.1212	$0.1220^{+0.0094}_{-0.0090}$	$A_{148}^{\text{PS, ACT}}$	10.50	$10.6^{+1.2}_{-1.1}$	H_0	69.4	66^{+8}_{-10}
$100\theta_{\text{MC}}$	1.04114	$1.0409^{+0.0015}_{-0.0015}$	$A_{218}^{\text{PS, ACT}}$	76.6	$76.7^{+8.4}_{-8.9}$	$10^9 A_s$	2.217	$2.22^{+0.15}_{-0.14}$
τ	0.0927	$0.094^{+0.029}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.60	$7.71^{+3.0}_{-2.8}$	$\Omega_m h^2$	0.1442	$0.147^{+0.012}_{-0.011}$
Σm_ν	0.058	< 0.824	$A_{150}^{\text{PS, SPT}}$	10.02	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^3$	0.1000	$0.097^{+0.015}_{-0.014}$
N_{eff}	3.24	$3.17^{+0.68}_{-0.66}$	$A_{220}^{\text{PS, SPT}}$	73.7	74^{+9}_{-9}	Y_{P}	0.2504	$0.2493^{+0.0089}_{-0.0094}$
n_s	0.9691	$0.961^{+0.033}_{-0.035}$	$r_{95 \times 150}^{\text{PS}}$	0.792	> 0.684	$10^9 A_s e^{-2\tau}$	1.8421	$1.842^{+0.044}_{-0.048}$
$\ln(10^{10} A_s)$	3.099	$3.101^{+0.064}_{-0.059}$	$r_{95 \times 220}^{\text{PS}}$	0.546	$0.59^{+0.24}_{-0.23}$	$\Omega_\nu h^2$	0.00063	< 0.00885
A_{100}^{PS}	213	220^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9128	$0.935^{+0.048}_{-0.046}$	Age/Gyr	13.59	$13.83^{+0.88}_{-0.77}$
A_{143}^{PS}	75.1	76^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.36}_{-0.38}$	z_*	1090.35	$1090.7^{+1.4}_{-1.3}$
A_{217}^{PS}	61.8	61^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.85^{+0.39}_{-0.38}$	r_*	143.2	$143.5^{+5.9}_{-5.5}$
A_{143}^{CIB}	3.06	$3.23^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9907	$0.991^{+0.014}_{-0.015}$	$100\theta_*$	1.04115	$1.0411^{+0.0018}_{-0.0017}$
A_{217}^{CIB}	51.2	50^{+10}_{-10}	y_{217}^{ACTs}	1.0030	$1.004^{+0.027}_{-0.026}$	z_{drag}	1060.20	$1059.7^{+2.8}_{-3.0}$
A_{143}^{tSZ}	3.91	< 4.87	y_{148}^{ACTe}	0.9870	$0.987^{+0.015}_{-0.015}$	r_{drag}	145.8	$146.2^{+6.3}_{-5.8}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9615	$0.963^{+0.021}_{-0.020}$	k_{D}	0.14132	$0.1411^{+0.0044}_{-0.0044}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.846	y_{95}^{SPT}	0.9823	$0.981^{+0.041}_{-0.037}$	$100\theta_{\text{D}}$	0.16166	$0.1616^{+0.0014}_{-0.0014}$
γ^{CIB}	0.645	$0.64^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9843	$0.986^{+0.020}_{-0.019}$	z_{eq}	3341	3388^{+170}_{-160}
c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00078}$	y_{220}^{SPT}	1.0175	$1.023^{+0.048}_{-0.043}$	$100\theta_{\text{eq}}$	0.8245	$0.816^{+0.031}_{-0.032}$
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.700	$0.655^{+0.088}_{-0.12}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07227	$0.0702^{+0.0041}_{-0.0049}$
$\xi^{\text{tSZ-CIB}}$	0.06	—	Ω_m	0.300	$0.345^{+0.12}_{-0.088}$			
A^{kSZ}	2.50	$5.14^{+3.7}_{-4.4}$	σ_8	0.836	$0.783^{+0.091}_{-0.11}$			

Best-fit $\chi_{\text{eff}}^2 = 10517.03$; R-1 = 0.02171

χ_{eff}^2 : CMB - lowLike: 2014.27 lensing: 10.00 lowl: -7.66 CamSpec: 7808.44 highL: 691.85

11.7 base_nnu_mnu_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02231^{+0.00058}_{-0.00057}$	β_1^1	0.46	$0.5^{+1.1}_{-1.1}$	z_{re}	11.34	$11.6^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.1221	$0.1228^{+0.0091}_{-0.0088}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.5^{+1.2}_{-1.1}$	H_0	69.18	$69.2^{+3.5}_{-3.4}$
$100\theta_{\text{MC}}$	1.04112	$1.0410^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	76.6	$76.6^{+8.5}_{-8.9}$	$10^9 A_s$	2.219	$2.24^{+0.14}_{-0.13}$
τ	0.0922	$0.095^{+0.028}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.39	$7.52^{+2.9}_{-2.8}$	$\Omega_m h^2$	0.1444	$0.1463^{+0.0096}_{-0.0093}$
Σm_ν	0.006	< 0.281	$A_{150}^{\text{PS, SPT}}$	9.91	$9.98^{+1.0}_{-0.99}$	$\Omega_m h^3$	0.0999	$0.101^{+0.011}_{-0.010}$
N_{eff}	3.23	$3.32^{+0.54}_{-0.52}$	$A_{220}^{\text{PS, SPT}}$	73.6	74^{+9}_{-9}	Y_{P}	0.2502	$0.2514^{+0.0069}_{-0.0071}$
n_s	0.9661	$0.970^{+0.021}_{-0.021}$	$r_{95 \times 150}^{\text{PS}}$	0.796	> 0.682	$10^9 A_s e^{-2\tau}$	1.8452	$1.847^{+0.042}_{-0.044}$
$\ln(10^{10} A_s)$	3.100	$3.107^{+0.062}_{-0.057}$	$r_{95 \times 220}^{\text{PS}}$	0.560	$0.59^{+0.24}_{-0.23}$	$\Omega_\nu h^2$	0.00007	< 0.00303
A_{100}^{PS}	212	221^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9179	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.599	$13.56^{+0.50}_{-0.48}$
A_{143}^{PS}	75.1	76^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.43^{+0.36}_{-0.39}$	z_*	1090.57	$1090.6^{+1.1}_{-1.1}$
A_{217}^{PS}	62.5	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.38}_{-0.39}$	r_*	143.08	$142.5^{+5.0}_{-4.7}$
A_{143}^{CIB}	3.04	$3.23^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9905	$0.991^{+0.015}_{-0.014}$	$100\theta_*$	1.04111	$1.0410^{+0.0016}_{-0.0016}$
A_{217}^{CIB}	50.6	49^{+10}_{-9}	y_{217}^{ACTs}	1.0025	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.97	$1060.3^{+2.0}_{-2.0}$
A_{143}^{tSZ}	3.73	< 4.90	y_{148}^{ACTe}	0.9867	$0.987^{+0.015}_{-0.014}$	r_{drag}	145.8	$145.1^{+5.2}_{-4.9}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9610	$0.962^{+0.021}_{-0.020}$	k_{D}	0.14134	$0.1418^{+0.0038}_{-0.0038}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{95}^{SPT}	0.9811	$0.981^{+0.039}_{-0.040}$	$100\theta_{\text{D}}$	0.16173	$0.1619^{+0.0013}_{-0.0013}$
γ^{CIB}	0.639	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9833	$0.985^{+0.020}_{-0.019}$	z_{eq}	3366	3345^{+88}_{-92}
c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00079}$	y_{220}^{SPT}	1.0166	$1.022^{+0.046}_{-0.044}$	$100\theta_{\text{eq}}$	0.8196	$0.824^{+0.018}_{-0.017}$
c_{217}	0.99740	$0.9974^{+0.0027}_{-0.0026}$	Ω_Λ	0.6982	$0.694^{+0.022}_{-0.025}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07214	$0.0719^{+0.0013}_{-0.0013}$
$\xi^{\text{tSZ-CIB}}$	0.09	—	Ω_{m}	0.3018	$0.306^{+0.025}_{-0.022}$			
A^{kSZ}	3.49	$5.71^{+4.1}_{-4.2}$	σ_8	0.849	$0.830^{+0.051}_{-0.054}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.15$; R-1 = 0.01135

χ_{eff}^2 : BAO - DR7: 0.55 DR9: 0.66 6DF: 0.19 CMB - lowLike: 2014.26 lowl: -7.12 CamSpec: 7807.48 highL: 692.96

11.8 base_nnu_mnu_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02255	$0.02260^{+0.00062}_{-0.00058}$	β_1^1	0.46	$0.5^{+1.1}_{-1.1}$	z_{re}	11.24	$12.1^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.1253	$0.1256^{+0.0086}_{-0.0085}$	$A_{148}^{\text{PS, ACT}}$	10.69	$10.5^{+1.2}_{-1.1}$	H_0	72.25	$71.8^{+3.8}_{-3.8}$
$100\theta_{\text{MC}}$	1.04087	$1.0408^{+0.0014}_{-0.0014}$	$A_{218}^{\text{PS, ACT}}$	77.6	76^{+9}_{-9}	$10^9 A_s$	2.229	$2.28^{+0.14}_{-0.14}$
τ	0.0908	$0.101^{+0.028}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.18	$7.43^{+2.9}_{-2.8}$	$\Omega_m h^2$	0.1478	$0.1493^{+0.0094}_{-0.0089}$
Σm_ν	0.000	< 0.263	$A_{150}^{\text{PS, SPT}}$	10.13	$9.92^{+1.0}_{-0.97}$	$\Omega_m h^3$	0.1068	$0.107^{+0.010}_{-0.0095}$
N_{eff}	3.574	$3.61^{+0.50}_{-0.48}$	$A_{220}^{\text{PS, SPT}}$	75.1	74^{+9}_{-9}	Y_{P}	0.2548	$0.2552^{+0.0061}_{-0.0062}$
n_s	0.9808	$0.983^{+0.021}_{-0.020}$	$r_{95 \times 150}^{\text{PS}}$	0.832	> 0.684	$10^9 A_s e^{-2\tau}$	1.8592	$1.861^{+0.038}_{-0.039}$
$\ln(10^{10} A_s)$	3.104	$3.126^{+0.060}_{-0.057}$	$r_{95 \times 220}^{\text{PS}}$	0.623	$0.59^{+0.25}_{-0.23}$	$\Omega_\nu h^2$	0.00000	< 0.00283
A_{100}^{PS}	227	226^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9293	$0.938^{+0.048}_{-0.045}$	Age/Gyr	13.253	$13.26^{+0.44}_{-0.43}$
A_{143}^{PS}	79.8	79^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.44^{+0.37}_{-0.39}$	z_*	1090.76	$1090.8^{+1.2}_{-1.2}$
A_{217}^{PS}	66.2	64^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.842	$0.85^{+0.38}_{-0.38}$	r_*	140.46	$140.2^{+4.3}_{-4.2}$
A_{143}^{CIB}	3.03	$3.23^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9891	$0.989^{+0.015}_{-0.014}$	$100\theta_*$	1.04062	$1.0406^{+0.0016}_{-0.0016}$
A_{217}^{CIB}	47.4	49^{+10}_{-9}	y_{217}^{ACTs}	1.0019	$1.002^{+0.026}_{-0.026}$	z_{drag}	1061.23	$1061.4^{+1.9}_{-1.8}$
A_{143}^{tSZ}	2.37	< 4.84	y_{148}^{ACTe}	0.9852	$0.986^{+0.015}_{-0.014}$	r_{drag}	143.01	$142.7^{+4.5}_{-4.3}$
$r_{143 \times 217}^{\text{PS}}$	0.814	$0.83^{+0.13}_{-0.12}$	y_{217}^{ACTe}	0.9609	$0.961^{+0.020}_{-0.020}$	k_{D}	0.14331	$0.1436^{+0.0034}_{-0.0034}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{95}^{SPT}	0.9762	$0.978^{+0.041}_{-0.037}$	$100\theta_{\text{D}}$	0.16241	$0.1624^{+0.0012}_{-0.0012}$
γ^{CIB}	0.596	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9816	$0.982^{+0.020}_{-0.019}$	z_{eq}	3298	3294^{+110}_{-110}
c_{100}	1.00059	$1.00060^{+0.00077}_{-0.00079}$	y_{220}^{SPT}	1.0178	$1.020^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8332	$0.834^{+0.022}_{-0.022}$
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.7169	$0.710^{+0.031}_{-0.033}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07320	$0.0728^{+0.0019}_{-0.0019}$
$\xi^{\text{tSZ-CIB}}$	0.39	—	Ω_{m}	0.2831	$0.290^{+0.033}_{-0.031}$			
A^{kSZ}	6.35	> 1.99	σ_8	0.8543	$0.845^{+0.048}_{-0.050}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.14$; R-1 = 0.01465

χ_{eff}^2 : CMB - lowLike: 2014.05 lowl: -8.72 CamSpec: 7808.66 highL: 694.38 Hubble - HST: 0.43

12 nnu+yhe

12.1 base_nnu_yhe_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02239^{+0.00082}_{-0.00079}$	$r_{143 \times 217}^{\text{CIB}}$	0.58	—	Y_P	0.256	$0.281^{+0.073}_{-0.075}$
$\Omega_c h^2$	0.1195	$0.120^{+0.019}_{-0.018}$	γ^{CIB}	0.541	$0.54^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.842	$1.848^{+0.056}_{-0.060}$
$100\theta_{\text{MC}}$	1.04159	$1.0427^{+0.0048}_{-0.0049}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	Age/Gyr	13.82	$13.7^{+1.1}_{-1.2}$
τ	0.0914	$0.095^{+0.030}_{-0.029}$	c_{217}	0.99647	$0.9965^{+0.0027}_{-0.0027}$	z_*	1090.59	$1091.4^{+1.9}_{-1.8}$
N_{eff}	3.02	$3.08^{+1.4}_{-1.3}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	r_*	144.8	145^{+11}_{-11}
Y_{He}	0.256	$0.281^{+0.073}_{-0.075}$	A^{kSZ}	0.6	—	$100\theta_*$	1.04153	$1.0418^{+0.0034}_{-0.0034}$
n_s	0.9662	$0.975^{+0.033}_{-0.032}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.74	$1061.2^{+3.0}_{-2.9}$
$\ln(10^{10} A_s)$	3.096	$3.106^{+0.072}_{-0.066}$	Ω_Λ	0.6858	$0.694^{+0.045}_{-0.049}$	r_{drag}	147.6	147^{+11}_{-12}
A_{100}^{PS}	152	187^{+100}_{-100}	Ω_m	0.3142	$0.306^{+0.049}_{-0.045}$	k_D	0.1398	$0.139^{+0.011}_{-0.010}$
A_{143}^{PS}	67.8	59^{+30}_{-30}	σ_8	0.8329	$0.838^{+0.049}_{-0.045}$	$100\theta_D$	0.16158	$0.1627^{+0.0019}_{-0.0018}$
A_{217}^{PS}	123.0	105^{+40}_{-40}	z_{re}	11.27	$11.6^{+2.6}_{-2.4}$	z_{eq}	3396	3382^{+200}_{-200}
A_{143}^{CIB}	0.0	—	H_0	67.3	68^{+9}_{-8}	$100\theta_{\text{eq}}$	0.8143	$0.819^{+0.038}_{-0.035}$
A_{217}^{CIB}	25	32^{+20}_{-20}	$10^9 A_s$	2.212	$2.23^{+0.16}_{-0.16}$	$r_{\text{drag}}/D_V(0.57)$	0.07148	$0.0720^{+0.0026}_{-0.0024}$
A_{143}^{tSZ}	5.72	—	$\Omega_m h^2$	0.1423	$0.143^{+0.020}_{-0.018}$			
$r_{143 \times 217}^{\text{PS}}$	0.903	> 0.726	$\Omega_m h^3$	0.0957	$0.098^{+0.025}_{-0.023}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.15$; R-1 = 0.01358

χ_{eff}^2 : CMB - lowLike: 2014.37 lowl: -7.53 CamSpec: 7797.68

12.2 base_nnu_yhe_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02242^{+0.00078}_{-0.00076}$	$r_{143 \times 217}^{\text{CIB}}$	0.47	—	Y_P	0.282	$0.287^{+0.070}_{-0.073}$
$\Omega_c h^2$	0.1143	$0.116^{+0.018}_{-0.017}$	γ^{CIB}	0.529	$0.54^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.828	$1.834^{+0.056}_{-0.057}$
$100\theta_{\text{MC}}$	1.04322	$1.0433^{+0.0047}_{-0.0048}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00078}$	Age/Gyr	14.09	$13.9^{+1.1}_{-1.2}$
τ	0.0802	$0.094^{+0.030}_{-0.027}$	c_{217}	0.99641	$0.9965^{+0.0027}_{-0.0027}$	z_*	1090.98	$1091.2^{+1.8}_{-1.7}$
N_{eff}	2.70	$2.88^{+1.3}_{-1.2}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	147.7	147^{+10}_{-11}
Y_{He}	0.282	$0.287^{+0.070}_{-0.073}$	A^{kSZ}	3.29	—	$100\theta_*$	1.04255	$1.0424^{+0.0035}_{-0.0034}$
n_s	0.9640	$0.973^{+0.031}_{-0.030}$	β_1^1	0.63	$0.6^{+1.1}_{-1.1}$	z_{drag}	1060.31	$1061.1^{+2.9}_{-2.9}$
$\ln(10^{10} A_s)$	3.066	$3.096^{+0.069}_{-0.064}$	Ω_Λ	0.6851	$0.696^{+0.040}_{-0.042}$	r_{drag}	150.5	149^{+10}_{-11}
A_{100}^{PS}	151	182^{+100}_{-100}	Ω_m	0.3149	$0.304^{+0.042}_{-0.040}$	k_D	0.1369	$0.138^{+0.010}_{-0.0096}$
A_{143}^{PS}	48	57^{+30}_{-30}	σ_8	0.8134	$0.826^{+0.045}_{-0.044}$	$100\theta_D$	0.16199	$0.1625^{+0.0019}_{-0.0018}$
A_{217}^{PS}	109.6	104^{+30}_{-40}	z_{re}	10.28	$11.5^{+2.4}_{-2.4}$	z_{eq}	3419	3382^{+190}_{-180}
A_{143}^{CIB}	6.29	—	H_0	66.0	68^{+8}_{-8}	$100\theta_{\text{eq}}$	0.8114	$0.819^{+0.034}_{-0.032}$
A_{217}^{CIB}	30	32^{+20}_{-20}	$10^9 A_s$	2.146	$2.21^{+0.15}_{-0.15}$	$r_{\text{drag}}/D_V(0.57)$	0.07150	$0.0722^{+0.0023}_{-0.0021}$
A_{143}^{tSZ}	8.05	—	$\Omega_m h^2$	0.1372	$0.139^{+0.018}_{-0.017}$			
$r_{143 \times 217}^{\text{PS}}$	0.880	> 0.718	$\Omega_m h^3$	0.0905	$0.094^{+0.023}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 9814.61$; R-1 = 0.01561

χ_{eff}^2 : CMB - lowLike: 2014.63 lensing: 9.38 lowl: -7.94 CamSpec: 7797.81

12.3 base_nnu_yhe_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02240	$0.02240^{+0.00060}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.66	—	Y_P	0.274	$0.284^{+0.062}_{-0.068}$
$\Omega_c h^2$	0.1258	$0.119^{+0.016}_{-0.015}$	γ^{CIB}	0.514	$0.54^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.868	$1.846^{+0.049}_{-0.051}$
$100\theta_{\text{MC}}$	1.04142	$1.0428^{+0.0040}_{-0.0042}$	c_{100}	1.00058	$1.00059^{+0.00079}_{-0.00078}$	Age/Gyr	13.39	$13.78^{+0.77}_{-0.81}$
τ	0.0867	$0.095^{+0.028}_{-0.026}$	c_{217}	0.99641	$0.9965^{+0.0027}_{-0.0027}$	z_*	1091.77	$1091.4^{+1.8}_{-1.7}$
N_{eff}	3.46	$3.02^{+0.96}_{-0.92}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	140.9	$145.0^{+8.0}_{-8.4}$
Y_{He}	0.274	$0.284^{+0.062}_{-0.068}$	A^{kSZ}	10.0	—	$100\theta_*$	1.04071	$1.0420^{+0.0029}_{-0.0029}$
n_s	0.9771	$0.975^{+0.021}_{-0.021}$	β_1^1	0.60	$0.6^{+1.1}_{-1.1}$	z_{drag}	1061.54	$1061.2^{+2.7}_{-2.6}$
$\ln(10^{10} A_s)$	3.101	$3.105^{+0.061}_{-0.058}$	Ω_Λ	0.6994	$0.695^{+0.022}_{-0.023}$	r_{drag}	143.5	$147.6^{+8.2}_{-8.6}$
A_{100}^{PS}	160	187^{+100}_{-100}	Ω_m	0.3006	$0.305^{+0.023}_{-0.022}$	k_D	0.1422	$0.1389^{+0.0081}_{-0.0078}$
A_{143}^{PS}	27	59^{+30}_{-30}	σ_8	0.8449	$0.836^{+0.041}_{-0.040}$	$100\theta_D$	0.16320	$0.1627^{+0.0019}_{-0.0018}$
A_{217}^{PS}	90.0	105^{+40}_{-40}	z_{re}	11.07	$11.6^{+2.4}_{-2.3}$	z_{eq}	3353	3381^{+110}_{-110}
A_{143}^{CIB}	13.4	—	H_0	70.35	$68.2^{+4.9}_{-4.8}$	$100\theta_{\text{eq}}$	0.8230	$0.819^{+0.018}_{-0.018}$
A_{217}^{CIB}	37.0	32^{+20}_{-20}	$10^9 A_s$	2.221	$2.23^{+0.14}_{-0.14}$	$r_{\text{drag}}/D_V(0.57)$	0.07217	$0.0720^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	10.0	—	$\Omega_m h^2$	0.1488	$0.142^{+0.016}_{-0.015}$			
$r_{143 \times 217}^{\text{PS}}$	0.877	> 0.726	$\Omega_m h^3$	0.1047	$0.097^{+0.017}_{-0.016}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.51$; R-1 = 0.00639

χ_{eff}^2 : BAO - DR9: 0.71 DR7: 0.49 6DF: 0.50 CMB - lowLike: 2014.24 lowl: -8.58 CamSpec: 7798.28

12.4 base_nnu_yhe_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02269	$0.02262^{+0.00069}_{-0.00067}$	$r_{143 \times 217}^{\text{CIB}}$	0.71	—	Y_P	0.288	$0.259^{+0.064}_{-0.066}$
$\Omega_c h^2$	0.1239	$0.127^{+0.015}_{-0.014}$	γ^{CIB}	0.516	$0.53^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8648	$1.870^{+0.042}_{-0.043}$
$100\theta_{\text{MC}}$	1.04214	$1.0408^{+0.0038}_{-0.0036}$	c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00079}$	Age/Gyr	13.27	$13.17^{+0.62}_{-0.60}$
τ	0.0845	$0.099^{+0.031}_{-0.030}$	c_{217}	0.99644	$0.9966^{+0.0027}_{-0.0027}$	z_*	1091.87	$1091.1^{+1.7}_{-1.6}$
N_{eff}	3.52	$3.70^{+0.84}_{-0.79}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	140.8	$139.5^{+6.7}_{-6.5}$
Y_{He}	0.288	$0.259^{+0.064}_{-0.066}$	A^{kSZ}	10.0	—	$100\theta_*$	1.04100	$1.0404^{+0.0025}_{-0.0024}$
n_s	0.9883	$0.988^{+0.023}_{-0.023}$	β_1^1	0.51	$0.7^{+1.1}_{-1.1}$	z_{drag}	1062.60	$1061.7^{+2.8}_{-2.8}$
$\ln(10^{10} A_s)$	3.095	$3.127^{+0.063}_{-0.057}$	Ω_Λ	0.7172	$0.714^{+0.027}_{-0.029}$	r_{drag}	143.3	$142.0^{+6.8}_{-6.6}$
A_{100}^{PS}	183	192^{+100}_{-100}	Ω_m	0.2828	$0.286^{+0.029}_{-0.027}$	k_D	0.1418	$0.1440^{+0.0070}_{-0.0068}$
A_{143}^{PS}	18.5	59^{+30}_{-30}	σ_8	0.8377	$0.855^{+0.038}_{-0.036}$	$100\theta_D$	0.16377	$0.1628^{+0.0019}_{-0.0018}$
A_{217}^{PS}	80.6	104^{+30}_{-40}	z_{re}	10.84	$12.0^{+2.5}_{-2.4}$	z_{eq}	3294	3290^{+110}_{-110}
A_{143}^{CIB}	19.9	—	H_0	72.17	$72.6^{+4.3}_{-4.3}$	$100\theta_{\text{eq}}$	0.8355	$0.835^{+0.022}_{-0.022}$
A_{217}^{CIB}	42.7	33^{+20}_{-20}	$10^9 A_s$	2.208	$2.28^{+0.14}_{-0.14}$	$r_{\text{drag}}/D_V(0.57)$	0.07326	$0.0730^{+0.0018}_{-0.0017}$
A_{143}^{tSZ}	10.0	—	$\Omega_m h^2$	0.1473	$0.150^{+0.015}_{-0.013}$			
$r_{143 \times 217}^{\text{PS}}$	0.891	> 0.719	$\Omega_m h^3$	0.1063	$0.109^{+0.016}_{-0.015}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.06$; R-1 = 0.01498

χ_{eff}^2 : CMB - lowLike: 2014.30 lowl: -9.20 CamSpec: 7799.62 Hubble - HST: 0.48

12.5 base_nnu_yhe_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02237	$0.02233^{+0.00080}_{-0.00076}$	A^{ksZ}	5.80	$5.70^{+4.1}_{-4.2}$	Ω_m	0.2978	$0.304^{+0.047}_{-0.045}$
$\Omega_c h^2$	0.1260	$0.123^{+0.021}_{-0.020}$	β_1^1	0.46	$0.5^{+1.1}_{-1.1}$	σ_8	0.8425	$0.840^{+0.050}_{-0.048}$
$100\theta_{\text{MC}}$	1.04052	$1.0412^{+0.0046}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.66	$10.5^{+1.2}_{-1.1}$	z_{re}	11.18	$11.6^{+2.5}_{-2.3}$
τ	0.0896	$0.095^{+0.030}_{-0.028}$	$A_{218}^{\text{PS, ACT}}$	77.4	77^{+9}_{-9}	H_0	70.7	69^{+9}_{-9}
N_{eff}	3.53	$3.33^{+1.5}_{-1.4}$	$A_{95}^{\text{PS, SPT}}$	7.26	$7.52^{+2.9}_{-2.8}$	$10^9 A_s$	2.225	$2.24^{+0.16}_{-0.15}$
Y_{He}	0.249	$0.254^{+0.072}_{-0.075}$	$A_{150}^{\text{PS, SPT}}$	10.10	$9.97^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1490	$0.146^{+0.022}_{-0.020}$
n_s	0.9745	$0.970^{+0.032}_{-0.030}$	$A_{220}^{\text{PS, SPT}}$	74.7	74^{+9}_{-9}	$\Omega_m h^3$	0.1054	$0.102^{+0.028}_{-0.026}$
$\ln(10^{10} A_s)$	3.102	$3.106^{+0.071}_{-0.069}$	$r_{95 \times 150}^{\text{PS}}$	0.824	> 0.683	Y_{P}	0.249	$0.254^{+0.071}_{-0.075}$
A_{100}^{PS}	221	220^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.613	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.860	$1.848^{+0.058}_{-0.060}$
A_{143}^{PS}	78.8	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9277	$0.938^{+0.046}_{-0.045}$	Age/Gyr	13.35	$13.6^{+1.2}_{-1.3}$
A_{217}^{PS}	65.3	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.44^{+0.36}_{-0.39}$	z_*	1090.80	$1090.7^{+1.6}_{-1.5}$
A_{143}^{CIB}	3.04	$3.23^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.85^{+0.39}_{-0.39}$	r_*	140.6	143^{+12}_{-12}
A_{217}^{CIB}	48.1	49^{+10}_{-9}	y_{148}^{ACTs}	0.9894	$0.991^{+0.015}_{-0.015}$	$100\theta_*$	1.04049	$1.0411^{+0.0035}_{-0.0036}$
A_{143}^{tSZ}	2.62	< 4.90	y_{217}^{ACTs}	1.0018	$1.004^{+0.027}_{-0.026}$	z_{drag}	1060.62	$1060.5^{+2.7}_{-2.7}$
$r_{143 \times 217}^{\text{PS}}$	0.816	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9855	$0.987^{+0.015}_{-0.015}$	r_{drag}	143.2	145^{+12}_{-12}
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.852	y_{217}^{ACTe}	0.9606	$0.962^{+0.021}_{-0.020}$	k_{D}	0.1433	$0.142^{+0.012}_{-0.011}$
γ^{CIB}	0.604	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9770	$0.980^{+0.039}_{-0.038}$	$100\theta_{\text{D}}$	0.16221	$0.1620^{+0.0016}_{-0.0016}$
c_{100}	1.00058	$1.00059^{+0.00077}_{-0.00078}$	y_{150}^{SPT}	0.9820	$0.984^{+0.021}_{-0.020}$	z_{eq}	3327	3358^{+200}_{-200}
c_{217}	0.99747	$0.9974^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0179	$1.022^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8270	$0.822^{+0.038}_{-0.035}$
$\xi^{\text{tSZ-CIB}}$	0.32	—	Ω_{Λ}	0.7022	$0.696^{+0.045}_{-0.047}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07233	$0.0721^{+0.0026}_{-0.0025}$

Best-fit $\chi_{\text{eff}}^2 = 10508.76$; R-1 = 0.01539

χ_{eff}^2 : CMB - lowLike: 2014.17 lowl: -8.26 CamSpec: 7808.57 highL: 693.98

12.6 base_nnu_yhe_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02238^{+0.00077}_{-0.00075}$	A^{KSZ}	2.72	$5.10^{+3.7}_{-4.3}$	Ω_m	0.3096	$0.303^{+0.041}_{-0.040}$
$\Omega_c h^2$	0.1179	$0.119^{+0.018}_{-0.017}$	β_1^1	0.45	$0.4^{+1.1}_{-1.1}$	σ_8	0.8223	$0.829^{+0.045}_{-0.041}$
$100\theta_{\text{MC}}$	1.04209	$1.0421^{+0.0046}_{-0.0047}$	$A_{148}^{\text{PS, ACT}}$	10.48	$10.6^{+1.2}_{-1.1}$	z_{re}	10.71	$11.4^{+2.3}_{-2.2}$
τ	0.0853	$0.094^{+0.028}_{-0.027}$	$A_{218}^{\text{PS, ACT}}$	76.5	77^{+9}_{-9}	H_0	67.4	68^{+8}_{-8}
N_{eff}	2.96	$3.07^{+1.3}_{-1.3}$	$A_{95}^{\text{PS, SPT}}$	7.60	$7.72^{+3.0}_{-2.9}$	$10^9 A_s$	2.175	$2.21^{+0.15}_{-0.14}$
Y_{He}	0.264	$0.264^{+0.064}_{-0.072}$	$A_{150}^{\text{PS, SPT}}$	9.97	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1408	$0.142^{+0.018}_{-0.018}$
n_s	0.9640	$0.969^{+0.030}_{-0.029}$	$A_{220}^{\text{PS, SPT}}$	73.6	74^{+9}_{-9}	$\Omega_m h^3$	0.0949	$0.097^{+0.024}_{-0.022}$
$\ln(10^{10} A_s)$	3.080	$3.096^{+0.067}_{-0.065}$	$r_{95 \times 150}^{\text{PS}}$	0.790	> 0.685	Y_{P}	0.264	$0.264^{+0.064}_{-0.072}$
A_{100}^{PS}	212	218^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.545	$0.59^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.834	$1.835^{+0.054}_{-0.057}$
A_{143}^{PS}	76.1	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9133	$0.935^{+0.046}_{-0.045}$	Age/Gyr	13.85	$13.8^{+1.1}_{-1.2}$
A_{217}^{PS}	62.7	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.44^{+0.36}_{-0.40}$	z_*	1090.62	$1090.6^{+1.5}_{-1.5}$
A_{143}^{CIB}	3.04	$3.21^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.39}_{-0.39}$	r_*	145.4	145^{+11}_{-11}
A_{217}^{CIB}	51.0	50^{+10}_{-10}	y_{148}^{ACTs}	0.9902	$0.991^{+0.015}_{-0.014}$	$100\theta_*$	1.04183	$1.0418^{+0.0033}_{-0.0033}$
A_{143}^{tSZ}	3.83	< 4.79	y_{217}^{ACTs}	1.0025	$1.004^{+0.027}_{-0.026}$	z_{drag}	1060.12	$1060.5^{+2.7}_{-2.7}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9865	$0.987^{+0.015}_{-0.015}$	r_{drag}	148.2	148^{+11}_{-11}
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9608	$0.963^{+0.021}_{-0.021}$	k_{D}	0.1392	$0.140^{+0.010}_{-0.0099}$
γ^{CIB}	0.643	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9811	$0.981^{+0.040}_{-0.039}$	$100\theta_{\text{D}}$	0.16171	$0.1619^{+0.0016}_{-0.0016}$
c_{100}	1.00059	$1.00059^{+0.00076}_{-0.00081}$	y_{150}^{SPT}	0.9832	$0.985^{+0.021}_{-0.020}$	z_{eq}	3386	3363^{+180}_{-180}
c_{217}	0.99735	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0168	$1.023^{+0.048}_{-0.046}$	$100\theta_{\text{eq}}$	0.8167	$0.822^{+0.034}_{-0.031}$
$\xi^{\text{tSZ-CIB}}$	0.06	—	Ω_{Λ}	0.6904	$0.697^{+0.040}_{-0.041}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07175	$0.0722^{+0.0022}_{-0.0022}$

Best-fit $\chi_{\text{eff}}^2 = 10516.73$; R-1 = 0.02971

χ_{eff}^2 : CMB - lowLike: 2014.27 lensing: 9.56 lowl: -7.50 CamSpec: 7807.76 highL: 692.49

12.7 base_nnu_yhe_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02227	$0.02233^{+0.00061}_{-0.00060}$	A^{KSZ}	1.95	$5.72^{+4.1}_{-4.2}$	Ω_m	0.3039	$0.305^{+0.023}_{-0.022}$
$\Omega_c h^2$	0.1232	$0.121^{+0.016}_{-0.015}$	β_1^1	0.49	$0.4^{+1.1}_{-1.1}$	σ_8	0.8378	$0.836^{+0.041}_{-0.039}$
$100\theta_{\text{MC}}$	1.04085	$1.0417^{+0.0039}_{-0.0040}$	$A_{148}^{\text{PS, ACT}}$	10.25	$10.5^{+1.2}_{-1.1}$	z_{re}	11.33	$11.5^{+2.3}_{-2.2}$
τ	0.0919	$0.095^{+0.027}_{-0.026}$	$A_{218}^{\text{PS, ACT}}$	75.5	$76.6^{+8.5}_{-9.0}$	H_0	69.33	$68.8^{+5.0}_{-4.6}$
N_{eff}	3.32	$3.19^{+0.99}_{-0.94}$	$A_{95}^{\text{PS, SPT}}$	7.18	$7.51^{+2.9}_{-2.8}$	$10^9 A_s$	2.222	$2.23^{+0.13}_{-0.13}$
Y_{He}	0.249	$0.260^{+0.057}_{-0.065}$	$A_{150}^{\text{PS, SPT}}$	9.70	$9.97^{+1.1}_{-1.0}$	$\Omega_m h^2$	0.1461	$0.144^{+0.016}_{-0.015}$
n_s	0.9688	$0.969^{+0.020}_{-0.020}$	$A_{220}^{\text{PS, SPT}}$	72.4	74^{+9}_{-9}	$\Omega_m h^3$	0.1013	$0.099^{+0.018}_{-0.017}$
$\ln(10^{10} A_s)$	3.101	$3.103^{+0.060}_{-0.055}$	$r_{95 \times 150}^{\text{PS}}$	0.805	> 0.682	Y_{P}	0.249	$0.260^{+0.057}_{-0.065}$
A_{100}^{PS}	210	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.558	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8488	$1.844^{+0.048}_{-0.051}$
A_{143}^{PS}	75.3	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9112	$0.938^{+0.046}_{-0.045}$	Age/Gyr	13.54	$13.66^{+0.78}_{-0.80}$
A_{217}^{PS}	62.4	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.44^{+0.36}_{-0.39}$	z_*	1090.57	$1090.8^{+1.5}_{-1.4}$
A_{143}^{CIB}	3.26	$3.23^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.85^{+0.39}_{-0.40}$	r_*	142.4	$143.6^{+7.9}_{-8.3}$
A_{217}^{CIB}	52.5	49^{+10}_{-9}	y_{148}^{ACTs}	0.9901	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04090	$1.0414^{+0.0028}_{-0.0028}$
A_{143}^{tSZ}	4.60	< 4.90	y_{217}^{ACTs}	1.0007	$1.003^{+0.027}_{-0.026}$	z_{drag}	1060.12	$1060.5^{+2.5}_{-2.4}$
$r_{143 \times 217}^{\text{PS}}$	0.829	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9860	$0.987^{+0.015}_{-0.014}$	r_{drag}	145.0	$146.3^{+8.1}_{-8.5}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9594	$0.962^{+0.021}_{-0.021}$	k_{D}	0.1420	$0.1407^{+0.0081}_{-0.0078}$
γ^{CIB}	0.659	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9819	$0.980^{+0.039}_{-0.038}$	$100\theta_{\text{D}}$	0.16181	$0.1620^{+0.0015}_{-0.0015}$
c_{100}	1.00059	$1.00059^{+0.00076}_{-0.00077}$	y_{150}^{SPT}	0.9816	$0.984^{+0.020}_{-0.020}$	z_{eq}	3352	3365^{+100}_{-100}
c_{217}	0.99728	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0155	$1.022^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8223	$0.821^{+0.018}_{-0.018}$
$\xi^{\text{tSZ-CIB}}$	0.01	—	Ω_{Λ}	0.6961	$0.695^{+0.022}_{-0.023}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07200	$0.0720^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 10510.15$; R-1 = 0.01288

χ_{eff}^2 : BAO - DR7: 0.76 DR9: 0.49 6DF: 0.23 CMB - lowLike: 2014.29 lowl: -7.62 CamSpec: 7807.97 highL: 693.94

12.8 base_nnu_yhe_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02242	$0.02251^{+0.00068}_{-0.00066}$	A^{KSZ}	4.10	$5.74^{+4.0}_{-4.3}$	Ω_m	0.2927	$0.288^{+0.029}_{-0.027}$
$\Omega_c h^2$	0.1257	$0.129^{+0.015}_{-0.015}$	β_1^1	0.50	$0.5^{+1.1}_{-1.1}$	σ_8	0.8397	$0.854^{+0.038}_{-0.036}$
$100\theta_{\text{MC}}$	1.04039	$1.0398^{+0.0035}_{-0.0034}$	$A_{148}^{\text{PS, ACT}}$	10.46	$10.5^{+1.2}_{-1.1}$	z_{re}	11.13	$11.9^{+2.5}_{-2.4}$
τ	0.0898	$0.098^{+0.029}_{-0.029}$	$A_{218}^{\text{PS, ACT}}$	76.8	$76.6^{+8.4}_{-8.9}$	H_0	71.29	$72.7^{+4.4}_{-4.3}$
N_{eff}	3.57	$3.83^{+0.87}_{-0.79}$	$A_{95}^{\text{PS, SPT}}$	7.34	$7.52^{+3.0}_{-2.8}$	$10^9 A_s$	2.221	$2.27^{+0.14}_{-0.14}$
Y_{He}	0.242	$0.236^{+0.058}_{-0.059}$	$A_{150}^{\text{PS, SPT}}$	9.94	$9.99^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1488	$0.152^{+0.015}_{-0.014}$
n_s	0.9757	$0.980^{+0.023}_{-0.022}$	$A_{220}^{\text{PS, SPT}}$	73.8	74^{+9}_{-8}	$\Omega_m h^3$	0.1061	$0.111^{+0.016}_{-0.015}$
$\ln(10^{10} A_s)$	3.100	$3.123^{+0.062}_{-0.056}$	$r_{95 \times 150}^{\text{PS}}$	0.803	> 0.679	Y_{P}	0.242	$0.236^{+0.058}_{-0.059}$
A_{100}^{PS}	217	224^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.574	$0.59^{+0.24}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8558	$1.866^{+0.042}_{-0.042}$
A_{143}^{PS}	76.2	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9207	$0.938^{+0.046}_{-0.045}$	Age/Gyr	13.31	$13.11^{+0.62}_{-0.60}$
A_{217}^{PS}	63.1	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.44^{+0.36}_{-0.39}$	z_*	1090.44	$1090.5^{+1.4}_{-1.5}$
A_{143}^{CIB}	3.05	$3.22^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.39}_{-0.39}$	r_*	140.5	$138.6^{+6.5}_{-6.6}$
A_{217}^{CIB}	50.0	49^{+10}_{-9}	y_{148}^{ACTs}	0.9902	$0.991^{+0.015}_{-0.015}$	$100\theta_*$	1.04051	$1.0400^{+0.0024}_{-0.0024}$
A_{143}^{tSZ}	3.46	< 4.89	y_{217}^{ACTs}	1.0025	$1.004^{+0.027}_{-0.026}$	z_{drag}	1060.54	$1060.9^{+2.6}_{-2.5}$
$r_{143 \times 217}^{\text{PS}}$	0.818	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9863	$0.987^{+0.015}_{-0.014}$	r_{drag}	143.1	$141.1^{+6.6}_{-6.7}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9610	$0.962^{+0.021}_{-0.021}$	k_{D}	0.1437	$0.1455^{+0.0071}_{-0.0066}$
γ^{CIB}	0.631	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9800	$0.980^{+0.039}_{-0.037}$	$100\theta_{\text{D}}$	0.16194	$0.1621^{+0.0015}_{-0.0015}$
c_{100}	1.00059	$1.00060^{+0.00076}_{-0.00078}$	y_{150}^{SPT}	0.9828	$0.985^{+0.020}_{-0.020}$	z_{eq}	3306	3286^{+110}_{-110}
c_{217}	0.99743	$0.9974^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0169	$1.022^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8311	$0.835^{+0.022}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.14	—	Ω_{Λ}	0.7073	$0.712^{+0.027}_{-0.029}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07262	$0.0729^{+0.0018}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 10510.16$; R-1 = 0.01894

χ_{eff}^2 : CMB - lowLike: 2014.13 lowl: -8.40 CamSpec: 7809.56 highL: 693.57 Hubble - HST: 1.10

13 nrun

13.1 base_nrun_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02216	$0.02218^{+0.00060}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.132	< 0.826	$\Omega_m h^3$	0.09623	$0.0962^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1206	$0.1206^{+0.0053}_{-0.0053}$	γ^{CIB}	0.541	$0.54^{+0.24}_{-0.26}$	Y_P	0.247749	$0.24776^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04129	$1.0413^{+0.0013}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8468	$1.845^{+0.029}_{-0.028}$
τ	0.0919	$0.097^{+0.031}_{-0.030}$	c_{217}	0.99644	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.810	$13.808^{+0.094}_{-0.098}$
n_s	0.9594	$0.956^{+0.016}_{-0.016}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.35	$1090.3^{+1.1}_{-1.1}$
$dn_s/d \ln k$	-0.0090	$-0.013^{+0.018}_{-0.018}$	A^{kSZ}	2.90	—	r_*	144.42	$144.4^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.100	$3.109^{+0.063}_{-0.056}$	β_1^1	0.80	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04143	$1.0414^{+0.0012}_{-0.0012}$
A_{100}^{PS}	152	184^{+100}_{-100}	Ω_Λ	0.6812	$0.681^{+0.032}_{-0.034}$	z_{drag}	1059.59	$1059.6^{+1.2}_{-1.2}$
A_{143}^{PS}	59.1	56^{+30}_{-30}	Ω_m	0.3188	$0.319^{+0.034}_{-0.032}$	r_{drag}	147.15	$147.2^{+1.2}_{-1.2}$
A_{217}^{PS}	119.4	104^{+30}_{-40}	σ_8	0.8333	$0.835^{+0.027}_{-0.026}$	k_D	0.14054	$0.1405^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	1.63	—	z_{re}	11.28	$11.7^{+2.5}_{-2.4}$	$100\theta_D$	0.16120	$0.16118^{+0.00071}_{-0.00070}$
A_{217}^{CIB}	25	31^{+20}_{-20}	H_0	67.08	$67.1^{+2.4}_{-2.3}$	z_{eq}	3412	3411^{+120}_{-120}
A_{143}^{tSZ}	6.53	—	$10^9 A_s$	2.219	$2.24^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8112	$0.812^{+0.023}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.887	> 0.721	$\Omega_m h^2$	0.1434	$0.1434^{+0.0051}_{-0.0050}$	$r_{\text{drag}}/D_V(0.57)$	0.07122	$0.0713^{+0.0018}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 9804.40$; R-1 = 0.00683

χ_{eff}^2 : CMB - lowLike: 2014.42 lowl: -8.85 CamSpec: 7798.20

13.2 base_nrun_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02229^{+0.00058}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.621	< 0.820	$\Omega_m h^3$	0.09613	$0.0962^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.11915	$0.1185^{+0.0043}_{-0.0042}$	γ^{CIB}	0.511	$0.53^{+0.24}_{-0.26}$	Y_P	0.247776	$0.24781^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04138	$1.0415^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8353	$1.834^{+0.023}_{-0.022}$
τ	0.0849	$0.093^{+0.029}_{-0.028}$	c_{217}	0.99632	$0.9964^{+0.0026}_{-0.0026}$	Age/Gyr	13.795	$13.781^{+0.090}_{-0.092}$
n_s	0.9584	$0.962^{+0.014}_{-0.014}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.14	$1089.99^{+0.96}_{-0.95}$
$dn_s/d \ln k$	-0.0093	$-0.009^{+0.017}_{-0.017}$	A^{kSZ}	2.68	—	r_*	144.75	$144.9^{+1.0}_{-0.99}$
$\ln(10^{10} A_s)$	3.080	$3.096^{+0.055}_{-0.053}$	β_1^1	0.55	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04152	$1.0416^{+0.0012}_{-0.0012}$
A_{100}^{PS}	150	178^{+100}_{-100}	Ω_Λ	0.6900	$0.694^{+0.025}_{-0.027}$	z_{drag}	1059.59	$1059.7^{+1.2}_{-1.2}$
A_{143}^{PS}	35	52^{+30}_{-30}	Ω_m	0.3100	$0.306^{+0.027}_{-0.025}$	r_{drag}	147.48	$147.6^{+1.0}_{-1.0}$
A_{217}^{PS}	100.7	102^{+30}_{-40}	σ_8	0.8200	$0.824^{+0.020}_{-0.020}$	k_D	0.14025	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	10.6	—	z_{re}	10.62	$11.3^{+2.3}_{-2.2}$	$100\theta_D$	0.16117	$0.16112^{+0.00071}_{-0.00067}$
A_{217}^{CIB}	33.7	31^{+20}_{-20}	H_0	67.69	$68.0^{+2.0}_{-2.0}$	z_{eq}	3378	3363^{+97}_{-95}
A_{143}^{tSZ}	9.97	—	$10^9 A_s$	2.175	$2.21^{+0.12}_{-0.12}$	$100\theta_{\text{eq}}$	0.8176	$0.821^{+0.018}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.885	> 0.712	$\Omega_m h^2$	0.14202	$0.1414^{+0.0041}_{-0.0040}$	$r_{\text{drag}}/D_V(0.57)$	0.07170	$0.0720^{+0.0015}_{-0.0015}$

Best-fit $\chi^2_{\text{eff}} = 9815.09$; R-1 = 0.01154

χ^2_{eff} : CMB - lowLike: 2014.43 lensing: 9.91 lowl: -9.04 CamSpec: 7798.90

13.3 base_nrun_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02224	$0.02227^{+0.00054}_{-0.00054}$	$r_{143 \times 217}^{\text{CIB}}$	0.610	< 0.821	$\Omega_m h^3$	0.09619	$0.0962^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.11904	$0.1191^{+0.0035}_{-0.0034}$	γ^{CIB}	0.513	$0.53^{+0.24}_{-0.26}$	Y_P	0.247784	$0.24779^{+0.00023}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04147	$1.0415^{+0.0011}_{-0.0011}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8360	$1.838^{+0.022}_{-0.022}$
τ	0.0961	$0.099^{+0.031}_{-0.030}$	c_{217}	0.99640	$0.9965^{+0.0026}_{-0.0027}$	Age/Gyr	13.789	$13.787^{+0.078}_{-0.078}$
n_s	0.9599	$0.960^{+0.012}_{-0.012}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.10	$1090.08^{+0.83}_{-0.81}$
$dn_s/d \ln k$	-0.0102	$-0.013^{+0.018}_{-0.018}$	A^{kSZ}	1.42	—	r_*	144.77	$144.74^{+0.88}_{-0.89}$
$\ln(10^{10} A_s)$	3.102	$3.110^{+0.065}_{-0.058}$	β_1^1	0.62	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04161	$1.0416^{+0.0011}_{-0.0011}$
A_{100}^{PS}	149	181^{+100}_{-100}	Ω_Λ	0.6910	$0.691^{+0.020}_{-0.021}$	z_{drag}	1059.63	$1059.7^{+1.2}_{-1.2}$
A_{143}^{PS}	42	55^{+30}_{-30}	Ω_m	0.3090	$0.309^{+0.021}_{-0.020}$	r_{drag}	147.48	$147.44^{+0.95}_{-0.96}$
A_{217}^{PS}	105.9	104^{+30}_{-40}	σ_8	0.8286	$0.831^{+0.027}_{-0.025}$	k_D	0.14025	$0.1403^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	8.70	—	z_{re}	11.57	$11.8^{+2.5}_{-2.4}$	$100\theta_D$	0.16116	$0.16113^{+0.00070}_{-0.00069}$
A_{217}^{CIB}	32.7	31^{+20}_{-20}	H_0	67.78	$67.8^{+1.6}_{-1.6}$	z_{eq}	3376	3378^{+82}_{-79}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.225	$2.24^{+0.15}_{-0.14}$	$100\theta_{\text{eq}}$	0.8181	$0.818^{+0.015}_{-0.015}$
$r_{143 \times 217}^{\text{PS}}$	0.879	> 0.721	$\Omega_m h^2$	0.14192	$0.1420^{+0.0034}_{-0.0033}$	$r_{\text{drag}}/D_V(0.57)$	0.07176	$0.0718^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9806.01$; R-1 = 0.00990

χ_{eff}^2 : BAO - DR9: 0.24 DR7: 1.23 6DF: 0.01 CMB - lowLike: 2014.50 lowl: -9.08 CamSpec: 7798.23

13.4 base_nrun_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02236	$0.02240^{+0.00057}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.614	< 0.823	$\Omega_m h^3$	0.09629	$0.0964^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.11782	$0.1177^{+0.0048}_{-0.0047}$	γ^{CIB}	0.512	$0.53^{+0.24}_{-0.26}$	Y_P	0.247834	$0.24785^{+0.00024}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04168	$1.0417^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8312	$1.832^{+0.026}_{-0.026}$
τ	0.0974	$0.103^{+0.034}_{-0.029}$	c_{217}	0.99638	$0.9965^{+0.0026}_{-0.0026}$	Age/Gyr	13.766	$13.760^{+0.091}_{-0.090}$
n_s	0.9628	$0.963^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.85	$1089.79^{+0.98}_{-0.93}$
$dn_s/d \ln k$	-0.0105	$-0.013^{+0.018}_{-0.018}$	A^{kSZ}	0.8	—	r_*	145.00	$145.0^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.102	$3.114^{+0.066}_{-0.059}$	β_1^1	0.59	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04182	$1.0418^{+0.0012}_{-0.0012}$
A_{100}^{PS}	151	180^{+100}_{-100}	Ω_Λ	0.6988	$0.699^{+0.027}_{-0.029}$	z_{drag}	1059.82	$1059.9^{+1.2}_{-1.2}$
A_{143}^{PS}	42	54^{+30}_{-30}	Ω_m	0.3012	$0.301^{+0.029}_{-0.027}$	r_{drag}	147.68	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	105.6	103^{+30}_{-40}	σ_8	0.8248	$0.829^{+0.028}_{-0.026}$	k_D	0.14014	$0.1402^{+0.0014}_{-0.0013}$
A_{143}^{CIB}	9.19	—	z_{re}	11.62	$12.0^{+2.6}_{-2.4}$	$100\theta_D$	0.16108	$0.16103^{+0.00070}_{-0.00069}$
A_{217}^{CIB}	33.0	31^{+20}_{-20}	H_0	68.38	$68.5^{+2.2}_{-2.1}$	z_{eq}	3350	3348^{+110}_{-110}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.225	$2.25^{+0.15}_{-0.14}$	$100\theta_{\text{eq}}$	0.8234	$0.824^{+0.021}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.881	> 0.720	$\Omega_m h^2$	0.14082	$0.1408^{+0.0046}_{-0.0045}$	$r_{\text{drag}}/D_V(0.57)$	0.07221	$0.0723^{+0.0017}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 9810.42$; R-1 = 0.01261

χ_{eff}^2 : CMB - lowLike: 2014.45 lowl: -9.31 CamSpec: 7799.29 Hubble - HST: 5.10

13.5 base_nrun_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02227	$0.02230^{+0.00059}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.468	< 0.822	$\Omega_m h^3$	0.09621	$0.0963^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.11864	$0.1187^{+0.0050}_{-0.0048}$	γ^{CIB}	0.521	$0.53^{+0.24}_{-0.26}$	Y_P	0.247798	$0.24781^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04153	$1.0415^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8343	$1.836^{+0.027}_{-0.026}$
τ	0.0962	$0.100^{+0.033}_{-0.031}$	c_{217}	0.99633	$0.9965^{+0.0026}_{-0.0026}$	Age/Gyr	13.783	$13.779^{+0.092}_{-0.095}$
n_s	0.9608	$0.961^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.03	$1090.0^{+1.0}_{-1.0}$
$dn_s/d \ln k$	-0.0103	$-0.013^{+0.018}_{-0.018}$	A^{kSZ}	6.00	—	r_*	144.85	$144.8^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.102	$3.111^{+0.065}_{-0.058}$	β_1^1	0.65	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04166	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	135	181^{+100}_{-100}	Ω_Λ	0.6935	$0.693^{+0.029}_{-0.031}$	z_{drag}	1059.70	$1059.8^{+1.2}_{-1.2}$
A_{143}^{PS}	43	54^{+30}_{-30}	Ω_m	0.3065	$0.307^{+0.031}_{-0.029}$	r_{drag}	147.55	$147.5^{+1.2}_{-1.2}$
A_{217}^{PS}	107.3	104^{+30}_{-40}	σ_8	0.8271	$0.830^{+0.028}_{-0.026}$	k_D	0.14021	$0.1403^{+0.0014}_{-0.0013}$
A_{143}^{CIB}	4.58	—	z_{re}	11.56	$11.9^{+2.6}_{-2.4}$	$100\theta_D$	0.16114	$0.16111^{+0.00071}_{-0.00068}$
A_{217}^{CIB}	28	31^{+20}_{-20}	H_0	67.96	$68.0^{+2.2}_{-2.2}$	z_{eq}	3367	3368^{+110}_{-110}
A_{143}^{tSZ}	8.94	—	$10^9 A_s$	2.224	$2.25^{+0.15}_{-0.14}$	$100\theta_{\text{eq}}$	0.8198	$0.820^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.721	$\Omega_m h^2$	0.14156	$0.1416^{+0.0048}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07190	$0.0719^{+0.0017}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 10233.79$; R-1 = 0.01014

χ_{eff}^2 : CMB - lowLike: 2014.47 lowl: -9.17 CamSpec: 7798.60 SN - SNLS: 429.08

13.6 base_nrun_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02219	$0.02222^{+0.00059}_{-0.00056}$	$r_{143 \times 217}^{\text{CIB}}$	0.581	< 0.824	$\Omega_m h^3$	0.09617	$0.0962^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.1197	$0.1199^{+0.0051}_{-0.0050}$	γ^{CIB}	0.518	$0.53^{+0.24}_{-0.26}$	Y_P	0.247763	$0.24778^{+0.00025}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04137	$1.0414^{+0.0012}_{-0.0012}$	c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8391	$1.842^{+0.027}_{-0.027}$
τ	0.0950	$0.098^{+0.032}_{-0.030}$	c_{217}	0.99636	$0.9965^{+0.0026}_{-0.0027}$	Age/Gyr	13.801	$13.797^{+0.092}_{-0.095}$
n_s	0.9586	$0.958^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.22	$1090.2^{+1.0}_{-1.0}$
$dn_s/d \ln k$	-0.0102	$-0.013^{+0.018}_{-0.018}$	A^{kSZ}	1.42	—	r_*	144.63	$144.6^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.102	$3.109^{+0.064}_{-0.057}$	β_1^1	0.63	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04151	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	152	183^{+100}_{-100}	Ω_Λ	0.6867	$0.686^{+0.030}_{-0.032}$	z_{drag}	1059.59	$1059.7^{+1.2}_{-1.2}$
A_{143}^{PS}	43	55^{+30}_{-30}	Ω_m	0.3133	$0.314^{+0.032}_{-0.030}$	r_{drag}	147.36	$147.3^{+1.2}_{-1.2}$
A_{217}^{PS}	107.4	104^{+30}_{-40}	σ_8	0.8305	$0.833^{+0.027}_{-0.026}$	k_D	0.14034	$0.1404^{+0.0014}_{-0.0013}$
A_{143}^{CIB}	8.72	—	z_{re}	11.52	$11.7^{+2.5}_{-2.4}$	$100\theta_D$	0.16120	$0.16116^{+0.00071}_{-0.00069}$
A_{217}^{CIB}	32.1	31^{+20}_{-20}	H_0	67.46	$67.5^{+2.2}_{-2.2}$	z_{eq}	3391	3395^{+120}_{-110}
A_{143}^{tSZ}	9.62	—	$10^9 A_s$	2.224	$2.24^{+0.14}_{-0.14}$	$100\theta_{\text{eq}}$	0.8152	$0.815^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.722	$\Omega_m h^2$	0.14256	$0.1427^{+0.0049}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07152	$0.0715^{+0.0017}_{-0.0017}$

Best-fit $\chi^2_{\text{eff}} = 9934.78$; R-1 = 0.00824

χ^2_{eff} : CMB - lowLike: 2014.48 lowl: -8.98 CamSpec: 7797.95 SN - Union2.1: 130.50

13.7 base_nrun_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02225^{+0.00058}_{-0.00057}$	β_1	0.56	$0.5^{+1.1}_{-1.1}$	σ_8	0.8320	$0.836^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1207	$0.1205^{+0.0054}_{-0.0053}$	$A_{148}^{\text{PS, ACT}}$	10.24	$10.5^{+1.2}_{-1.1}$	z_{re}	11.38	$11.9^{+2.5}_{-2.4}$
$100\theta_{\text{MC}}$	1.04128	$1.0413^{+0.0013}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	75.4	$76.6^{+8.5}_{-8.9}$	H_0	67.07	$67.2^{+2.4}_{-2.3}$
τ	0.0931	$0.100^{+0.032}_{-0.030}$	$A_{95}^{\text{PS, SPT}}$	7.35	$7.60^{+2.9}_{-2.8}$	$10^9 A_s$	2.220	$2.25^{+0.14}_{-0.14}$
n_s	0.9552	$0.955^{+0.015}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	9.70	$10.0^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.1436	$0.1434^{+0.0051}_{-0.0051}$
$dn_s/d \ln k$	-0.0106	$-0.015^{+0.017}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	72.5	74^{+9}_{-9}	$\Omega_m h^3$	0.09629	$0.0964^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.115^{+0.063}_{-0.061}$	$r_{95 \times 150}^{\text{PS}}$	0.793	> 0.682	Y_P	0.247760	$0.24779^{+0.00025}_{-0.00024}$
A_{100}^{PS}	216	224^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.542	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8433	$1.844^{+0.028}_{-0.028}$
A_{143}^{PS}	76.6	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9102	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.808	$13.799^{+0.093}_{-0.097}$
A_{217}^{PS}	62.8	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.431	$0.44^{+0.36}_{-0.39}$	z_*	1090.32	$1090.2^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.18	$3.22^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.852	$0.85^{+0.39}_{-0.39}$	r_*	144.37	$144.4^{+1.2}_{-1.2}$
A_{217}^{CIB}	52.6	49^{+10}_{-9}	y_{148}^{ACTs}	0.9892	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04142	$1.0414^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.45	< 4.82	y_{217}^{ACTs}	1.0006	$1.003^{+0.027}_{-0.026}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.831	$0.83^{+0.13}_{-0.13}$	y_{148}^{ACTe}	0.9856	$0.986^{+0.014}_{-0.014}$	r_{drag}	147.10	$147.1^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9593	$0.962^{+0.021}_{-0.020}$	k_D	0.14061	$0.1407^{+0.0014}_{-0.0014}$
γ^{CIB}	0.660	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9802	$0.980^{+0.040}_{-0.037}$	$100\theta_D$	0.16116	$0.16109^{+0.00070}_{-0.00069}$
c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00077}$	y_{150}^{SPT}	0.9817	$0.985^{+0.019}_{-0.019}$	z_{eq}	3415	3411^{+120}_{-120}
c_{217}	0.99736	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0166	$1.022^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8108	$0.812^{+0.023}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6809	$0.682^{+0.032}_{-0.034}$	$r_{\text{drag}}/D_V(0.57)$	0.07120	$0.0713^{+0.0018}_{-0.0018}$
A^{kSZ}	1.99	$5.65^{+4.0}_{-4.3}$	Ω_m	0.3191	$0.318^{+0.034}_{-0.032}$			

Best-fit $\chi_{\text{eff}}^2 = 10506.60$; R-1 = 0.00997

χ_{eff}^2 : CMB - lowLike: 2014.45 lowl: -8.71 CamSpec: 7807.62 highL: 693.11

13.8 base_nrun_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02235^{+0.00058}_{-0.00059}$	β_1^1	0.49	$0.4^{+1.1}_{-1.1}$	σ_8	0.8270	$0.825^{+0.020}_{-0.019}$
$\Omega_c h^2$	0.11849	$0.1185^{+0.0043}_{-0.0045}$	$A_{148}^{\text{PS, ACT}}$	10.41	$10.7^{+1.2}_{-1.1}$	z_{re}	11.50	$11.5^{+2.4}_{-2.3}$
$100\theta_{\text{MC}}$	1.04152	$1.0415^{+0.0012}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.2	77^{+9}_{-9}	H_0	68.03	$68.1^{+2.2}_{-2.0}$
τ	0.0956	$0.096^{+0.031}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.55	$7.74^{+2.8}_{-2.5}$	$10^9 A_s$	2.219	$2.22^{+0.13}_{-0.12}$
n_s	0.9613	$0.960^{+0.013}_{-0.013}$	$A_{150}^{\text{PS, SPT}}$	9.92	$10.19^{+0.99}_{-0.99}$	$\Omega_m h^2$	0.14144	$0.1415^{+0.0040}_{-0.0042}$
$dn_s/d \ln k$	-0.0070	$-0.011^{+0.016}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	73.3	75^{+9}_{-9}	$\Omega_m h^3$	0.09622	$0.0963^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.099	$3.101^{+0.056}_{-0.050}$	$r_{95 \times 150}^{\text{PS}}$	0.797	> 0.688	Y_P	0.247809	$0.24783^{+0.00025}_{-0.00025}$
A_{100}^{PS}	212	221^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.543	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8324	$1.834^{+0.022}_{-0.022}$
A_{143}^{PS}	74.3	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9071	$0.934^{+0.049}_{-0.046}$	Age/Gyr	13.780	$13.774^{+0.092}_{-0.094}$
A_{217}^{PS}	61.4	61^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.417	$0.44^{+0.37}_{-0.38}$	z_*	1089.98	$1089.92^{+0.97}_{-1.0}$
A_{143}^{CIB}	3.24	$3.24^{+1.5}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.84^{+0.40}_{-0.39}$	r_*	144.87	$144.8^{+1.0}_{-0.99}$
A_{217}^{CIB}	52.4	50^{+10}_{-9}	y_{148}^{ACTs}	0.9908	$0.991^{+0.014}_{-0.014}$	$100\theta_*$	1.04164	$1.0416^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.57	< 4.89	y_{217}^{ACTs}	1.0025	$1.005^{+0.027}_{-0.027}$	z_{drag}	1059.74	$1059.9^{+1.2}_{-1.3}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.83^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9871	$0.987^{+0.014}_{-0.014}$	r_{drag}	147.56	$147.5^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9609	$0.963^{+0.021}_{-0.020}$	k_D	0.14021	$0.1403^{+0.0012}_{-0.0012}$
γ^{CIB}	0.657	$0.63^{+0.15}_{-0.17}$	y_{95}^{SPT}	0.9836	$0.983^{+0.039}_{-0.038}$	$100\theta_D$	0.16111	$0.16104^{+0.00069}_{-0.00072}$
c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00075}$	y_{150}^{SPT}	0.9849	$0.987^{+0.020}_{-0.018}$	z_{eq}	3364	3365^{+97}_{-100}
c_{217}	0.99730	$0.9974^{+0.0026}_{-0.0025}$	y_{220}^{SPT}	1.0180	$1.024^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8204	$0.821^{+0.020}_{-0.018}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.6944	$0.695^{+0.027}_{-0.027}$	$r_{\text{drag}}/D_V(0.57)$	0.07195	$0.0720^{+0.0017}_{-0.0015}$
A^{kSZ}	1.24	$4.90^{+3.7}_{-4.2}$	Ω_m	0.3056	$0.305^{+0.027}_{-0.027}$			

Best-fit $\chi_{\text{eff}}^2 = 10515.83$; R-1 = 0.03679

χ_{eff}^2 : CMB - lowLike: 2014.44 lensing: 9.89 lowl: -8.60 CamSpec: 7808.48 highL: 691.51

13.9 base_nrun_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02233^{+0.00053}_{-0.00053}$	β_1^1	0.50	$0.5^{+1.1}_{-1.1}$	σ_8	0.8277	$0.833^{+0.027}_{-0.026}$
$\Omega_c h^2$	0.11930	$0.1191^{+0.0035}_{-0.0035}$	$A_{148}^{\text{PS, ACT}}$	10.46	$10.5^{+1.2}_{-1.1}$	z_{re}	11.45	$12.1^{+2.5}_{-2.4}$
$100\theta_{\text{MC}}$	1.04146	$1.0415^{+0.0011}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	76.8	$76.7^{+8.4}_{-8.9}$	H_0	67.70	$67.8^{+1.6}_{-1.5}$
τ	0.0946	$0.103^{+0.031}_{-0.031}$	$A_{95}^{\text{PS, SPT}}$	7.40	$7.57^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.26^{+0.15}_{-0.14}$
n_s	0.9579	$0.958^{+0.011}_{-0.011}$	$A_{150}^{\text{PS, SPT}}$	9.96	$10.03^{+0.99}_{-0.98}$	$\Omega_m h^2$	0.14221	$0.1421^{+0.0034}_{-0.0034}$
$dn_s/d \ln k$	-0.0103	$-0.014^{+0.016}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	73.9	74^{+9}_{-9}	$\Omega_m h^3$	0.09627	$0.0964^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.116^{+0.064}_{-0.063}$	$r_{95 \times 150}^{\text{PS}}$	0.801	> 0.686	Y_P	0.247792	$0.24782^{+0.00023}_{-0.00023}$
A_{100}^{PS}	216	223^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.569	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8367	$1.837^{+0.021}_{-0.021}$
A_{143}^{PS}	76.2	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9194	$0.937^{+0.048}_{-0.045}$	Age/Gyr	13.789	$13.780^{+0.076}_{-0.077}$
A_{217}^{PS}	62.8	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.43^{+0.37}_{-0.38}$	z_*	1090.10	$1090.00^{+0.81}_{-0.79}$
A_{143}^{CIB}	3.05	$3.23^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.84^{+0.40}_{-0.39}$	r_*	144.69	$144.68^{+0.89}_{-0.89}$
A_{217}^{CIB}	50.2	49^{+10}_{-9}	y_{148}^{ACTs}	0.9903	$0.991^{+0.014}_{-0.014}$	$100\theta_*$	1.04161	$1.0416^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	3.52	< 4.87	y_{217}^{ACTs}	1.0027	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.70	$1059.8^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.83^{+0.13}_{-0.13}$	y_{148}^{ACTe}	0.9864	$0.987^{+0.014}_{-0.014}$	r_{drag}	147.39	$147.36^{+0.95}_{-0.96}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9612	$0.962^{+0.021}_{-0.020}$	k_D	0.14036	$0.1404^{+0.0012}_{-0.0012}$
γ^{CIB}	0.633	$0.63^{+0.16}_{-0.17}$	y_{95}^{SPT}	0.9808	$0.981^{+0.040}_{-0.036}$	$100\theta_D$	0.16113	$0.16105^{+0.00070}_{-0.00068}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00076}$	y_{150}^{SPT}	0.9836	$0.985^{+0.019}_{-0.018}$	z_{eq}	3383	3380^{+81}_{-81}
c_{217}	0.99740	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0174	$1.023^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8169	$0.818^{+0.015}_{-0.015}$
$\xi^{\text{tSZ-CIB}}$	0.13	—	Ω_Λ	0.6897	$0.691^{+0.020}_{-0.021}$	$r_{\text{drag}}/D_V(0.57)$	0.07169	$0.0718^{+0.0012}_{-0.0012}$
A^{kSZ}	3.89	$5.61^{+4.1}_{-4.3}$	Ω_m	0.3103	$0.309^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10508.14$; R-1 = 0.01626

χ_{eff}^2 : BAO - DR7: 1.40 DR9: 0.18 6DF: 0.01 CMB - lowLike: 2014.42 lowl: -8.93 CamSpec: 7808.26 highL: 692.62

13.10 base_nrun_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02235	$0.02246^{+0.00056}_{-0.00056}$	β_1	0.43	$0.5^{+1.1}_{-1.1}$	σ_8	0.8232	$0.830^{+0.029}_{-0.028}$
$\Omega_c h^2$	0.11750	$0.1177^{+0.0049}_{-0.0047}$	$A_{148}^{\text{PS, ACT}}$	10.45	$10.5^{+1.2}_{-1.1}$	z_{re}	11.59	$12.2^{+2.5}_{-2.5}$
$100\theta_{\text{MC}}$	1.04171	$1.0417^{+0.0013}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.9	$76.9^{+8.5}_{-8.9}$	H_0	68.49	$68.5^{+2.2}_{-2.1}$
τ	0.0972	$0.106^{+0.033}_{-0.030}$	$A_{95}^{\text{PS, SPT}}$	7.44	$7.58^{+3.0}_{-2.8}$	$10^9 A_s$	2.220	$2.26^{+0.15}_{-0.14}$
n_s	0.9626	$0.961^{+0.014}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	9.97	$10.1^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14050	$0.1408^{+0.0047}_{-0.0045}$
$dn_s/d \ln k$	-0.0081	$-0.014^{+0.017}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	73.9	74^{+9}_{-9}	$\Omega_m h^3$	0.09623	$0.0965^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.119^{+0.068}_{-0.060}$	$r_{95 \times 150}^{\text{PS}}$	0.797	> 0.686	Y_P	0.247832	$0.24788^{+0.00024}_{-0.00024}$
A_{100}^{PS}	212	222^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.562	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8276	$1.832^{+0.026}_{-0.026}$
A_{143}^{PS}	74.5	75^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9184	$0.937^{+0.048}_{-0.046}$	Age/Gyr	13.765	$13.754^{+0.090}_{-0.088}$
A_{217}^{PS}	61.4	61^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.44^{+0.37}_{-0.36}$	z_*	1089.82	$1089.72^{+0.96}_{-0.95}$
A_{143}^{CIB}	3.05	$3.25^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.843	$0.85^{+0.41}_{-0.38}$	r_*	145.08	$145.0^{+1.1}_{-1.2}$
A_{217}^{CIB}	50.5	49^{+10}_{-9}	y_{148}^{ACTs}	0.9911	$0.991^{+0.014}_{-0.014}$	$100\theta_*$	1.04184	$1.0419^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.66	< 4.91	y_{217}^{ACTs}	1.0035	$1.005^{+0.027}_{-0.026}$	z_{drag}	1059.78	$1060.0^{+1.1}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.816	$0.83^{+0.13}_{-0.13}$	y_{148}^{ACTe}	0.9872	$0.987^{+0.015}_{-0.014}$	r_{drag}	147.77	$147.6^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9620	$0.963^{+0.021}_{-0.020}$	k_D	0.14004	$0.1403^{+0.0014}_{-0.0014}$
γ^{CIB}	0.637	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9825	$0.982^{+0.039}_{-0.037}$	$100\theta_D$	0.16109	$0.16096^{+0.00069}_{-0.00066}$
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00076}$	y_{150}^{SPT}	0.9849	$0.987^{+0.020}_{-0.019}$	z_{eq}	3342	3349^{+110}_{-110}
c_{217}	0.99736	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0182	$1.024^{+0.046}_{-0.046}$	$100\theta_{\text{eq}}$	0.8248	$0.824^{+0.021}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.11	—	Ω_Λ	0.7005	$0.700^{+0.027}_{-0.029}$	$r_{\text{drag}}/D_V(0.57)$	0.07231	$0.0723^{+0.0017}_{-0.0017}$
A^{kSZ}	3.64	—	Ω_m	0.2995	$0.300^{+0.029}_{-0.027}$			

Best-fit $\chi^2_{\text{eff}} = 10512.85$; R-1 = 0.02996

χ^2_{eff} : CMB - lowLike: 2014.45 lowl: -8.95 CamSpec: 7809.83 highL: 692.47 Hubble - HST: 4.88

13.11 base_nrun_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02236^{+0.00057}_{-0.00057}$	β_1	0.48	$0.5^{+1.1}_{-1.1}$	σ_8	0.8272	$0.832^{+0.029}_{-0.027}$
$\Omega_c h^2$	0.11914	$0.1186^{+0.0049}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.48	$10.5^{+1.2}_{-1.1}$	z_{re}	11.49	$12.1^{+2.6}_{-2.4}$
$100\theta_{\text{MC}}$	1.04129	$1.0416^{+0.0013}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.8	$76.8^{+8.4}_{-8.9}$	H_0	67.67	$68.1^{+2.3}_{-2.2}$
τ	0.0951	$0.104^{+0.033}_{-0.031}$	$A_{95}^{\text{PS, SPT}}$	7.40	$7.57^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.26^{+0.15}_{-0.14}$
n_s	0.9579	$0.959^{+0.014}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	9.98	$10.0^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14201	$0.1416^{+0.0047}_{-0.0047}$
$dn_s/d \ln k$	-0.0099	$-0.014^{+0.016}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	74.0	74^{+9}_{-9}	$\Omega_m h^3$	0.09610	$0.0964^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.117^{+0.065}_{-0.063}$	$r_{95 \times 150}^{\text{PS}}$	0.802	> 0.686	Y_P	0.247780	$0.24784^{+0.00024}_{-0.00025}$
A_{100}^{PS}	216	222^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.572	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8352	$1.835^{+0.027}_{-0.026}$
A_{143}^{PS}	76.3	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9202	$0.937^{+0.048}_{-0.046}$	Age/Gyr	13.796	$13.772^{+0.091}_{-0.096}$
A_{217}^{PS}	62.7	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.44^{+0.37}_{-0.39}$	z_*	1090.12	$1089.91^{+0.99}_{-0.97}$
A_{143}^{CIB}	3.04	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.40}_{-0.39}$	r_*	144.75	$144.8^{+1.2}_{-1.2}$
A_{217}^{CIB}	50.1	49^{+10}_{-9}	y_{148}^{ACTs}	0.9902	$0.991^{+0.014}_{-0.014}$	$100\theta_*$	1.04143	$1.0417^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	3.42	< 4.89	y_{217}^{ACTs}	1.0028	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.63	$1059.9^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.83^{+0.13}_{-0.13}$	y_{148}^{ACTe}	0.9864	$0.987^{+0.014}_{-0.014}$	r_{drag}	147.47	$147.5^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9614	$0.963^{+0.021}_{-0.020}$	k_D	0.14026	$0.1404^{+0.0013}_{-0.0014}$
γ^{CIB}	0.631	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9807	$0.982^{+0.039}_{-0.037}$	$100\theta_D$	0.16115	$0.16103^{+0.00071}_{-0.00068}$
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00076}$	y_{150}^{SPT}	0.9836	$0.986^{+0.020}_{-0.019}$	z_{eq}	3378	3369^{+110}_{-110}
c_{217}	0.99739	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0177	$1.023^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8175	$0.820^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.14	—	Ω_Λ	0.6899	$0.694^{+0.029}_{-0.030}$	$r_{\text{drag}}/D_V(0.57)$	0.07169	$0.0719^{+0.0017}_{-0.0017}$
A^{kSZ}	4.08	$5.60^{+4.1}_{-4.3}$	Ω_m	0.3101	$0.306^{+0.030}_{-0.029}$			

Best-fit $\chi_{\text{eff}}^2 = 10936.10$; R-1 = 0.01868

χ_{eff}^2 : CMB - lowLike: 2014.46 lowl: -8.86 CamSpec: 7808.33 highL: 692.58 SN - SNLS: 429.41

13.12 base_nrun_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02229^{+0.00058}_{-0.00057}$	β_1	0.50	$0.5^{+1.1}_{-1.1}$	σ_8	0.8288	$0.835^{+0.028}_{-0.026}$
$\Omega_c h^2$	0.1196	$0.1198^{+0.0051}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.45	$10.5^{+1.2}_{-1.1}$	z_{re}	11.47	$12.0^{+2.5}_{-2.4}$
$100\theta_{\text{MC}}$	1.04131	$1.0414^{+0.0013}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.7	$76.7^{+8.5}_{-8.9}$	H_0	67.52	$67.5^{+2.3}_{-2.2}$
τ	0.0946	$0.102^{+0.032}_{-0.031}$	$A_{95}^{\text{PS, SPT}}$	7.41	$7.57^{+2.9}_{-2.8}$	$10^9 A_s$	2.220	$2.26^{+0.14}_{-0.14}$
n_s	0.9578	$0.956^{+0.014}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	9.95	$10.0^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14242	$0.1428^{+0.0049}_{-0.0048}$
$dn_s/d \ln k$	-0.0099	$-0.015^{+0.016}_{-0.017}$	$A_{220}^{\text{PS, SPT}}$	73.8	74^{+9}_{-9}	$\Omega_m h^3$	0.09617	$0.0964^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.116^{+0.063}_{-0.062}$	$r_{95 \times 150}^{\text{PS}}$	0.798	> 0.686	Y_P	0.247775	$0.24780^{+0.00024}_{-0.00024}$
A_{100}^{PS}	215	224^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.565	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8371	$1.841^{+0.027}_{-0.027}$
A_{143}^{PS}	75.8	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9188	$0.937^{+0.048}_{-0.046}$	Age/Gyr	13.799	$13.790^{+0.091}_{-0.095}$
A_{217}^{PS}	62.6	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.44^{+0.37}_{-0.39}$	z_*	1090.17	$1090.1^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.04	$3.23^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.40}_{-0.39}$	r_*	144.65	$144.5^{+1.2}_{-1.2}$
A_{217}^{CIB}	50.4	49^{+10}_{-9}	y_{148}^{ACTs}	0.9904	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04146	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.58	< 4.86	y_{217}^{ACTs}	1.0027	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.818	$0.83^{+0.13}_{-0.13}$	y_{148}^{ACTe}	0.9865	$0.986^{+0.014}_{-0.014}$	r_{drag}	147.37	$147.2^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9612	$0.962^{+0.021}_{-0.020}$	k_D	0.14036	$0.1406^{+0.0014}_{-0.0013}$
γ^{CIB}	0.636	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9810	$0.981^{+0.040}_{-0.036}$	$100\theta_D$	0.16115	$0.16107^{+0.00071}_{-0.00068}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00076}$	y_{150}^{SPT}	0.9836	$0.985^{+0.020}_{-0.019}$	z_{eq}	3388	3396^{+120}_{-110}
c_{217}	0.99741	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0174	$1.022^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8158	$0.815^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.12	—	Ω_Λ	0.6876	$0.686^{+0.030}_{-0.031}$	$r_{\text{drag}}/D_V(0.57)$	0.07156	$0.0715^{+0.0018}_{-0.0016}$
A^{kSZ}	3.76	$5.62^{+4.1}_{-4.3}$	Ω_m	0.3124	$0.314^{+0.031}_{-0.030}$			

Best-fit $\chi_{\text{eff}}^2 = 10637.02$; R-1 = 0.01269

χ_{eff}^2 : CMB - lowLike: 2014.46 lowl: -8.87 CamSpec: 7808.13 highL: 692.64 SN - Union2.1: 130.48

13.13 base_nrun_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.0230^{+0.0013}_{-0.0012}$	$r_{143 \times 217}^{\text{CIB}}$	0.345	< 0.813	$\Omega_m h^3$	0.09620	$0.0972^{+0.0019}_{-0.0018}$
$\Omega_c h^2$	0.1208	$0.1156^{+0.0081}_{-0.0084}$	γ^{CIB}	0.574	$0.53^{+0.24}_{-0.25}$	Y_P	0.24774	$0.24809^{+0.00053}_{-0.00051}$
$100\theta_{\text{MC}}$	1.04124	$1.0421^{+0.0017}_{-0.0016}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8483	$1.829^{+0.035}_{-0.033}$
τ	0.091	$0.21^{+0.14}_{-0.14}$	c_{217}	0.99652	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.814	$13.68^{+0.20}_{-0.21}$
n_s	0.9593	$0.974^{+0.030}_{-0.029}$	$\xi^{\text{tSZ-CIB}}$	0.13	—	z_*	1090.39	$1088.9^{+2.0}_{-2.1}$
$dn_s/d \ln k$	-0.0096	$-0.034^{+0.033}_{-0.035}$	A^{kSZ}	1.83	—	r_*	144.38	$145.1^{+1.5}_{-1.5}$
$\ln(10^{10} A_s)$	3.099	$3.33^{+0.26}_{-0.26}$	β_1^1	0.82	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04139	$1.0422^{+0.0016}_{-0.0016}$
A_{100}^{PS}	161	169^{+100}_{-100}	Ω_Λ	0.680	$0.713^{+0.049}_{-0.051}$	z_{drag}	1059.55	$1061.1^{+2.4}_{-2.3}$
A_{143}^{PS}	67.1	52^{+30}_{-30}	Ω_m	0.320	$0.287^{+0.051}_{-0.049}$	r_{drag}	147.12	$147.6^{+1.3}_{-1.3}$
A_{217}^{PS}	119.9	105^{+30}_{-30}	σ_8	0.833	$0.910^{+0.089}_{-0.091}$	k_D	0.14056	$0.1407^{+0.0013}_{-0.0014}$
A_{143}^{CIB}	0.0	—	z_{re}	11.2	$19.1^{+8.1}_{-8.6}$	$100\theta_D$	0.16121	$0.1604^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	66.98	$69.9^{+4.6}_{-4.4}$	z_{eq}	3416	3312^{+170}_{-170}
A_{143}^{tSZ}	6.03	—	$10^9 A_s$	2.22	$2.81^{+0.77}_{-0.73}$	$100\theta_{\text{eq}}$	0.8104	$0.833^{+0.038}_{-0.035}$
$r_{143 \times 217}^{\text{PS}}$	0.915	> 0.732	$\Omega_m h^2$	0.1436	$0.1392^{+0.0072}_{-0.0073}$	$r_{\text{drag}}/D_V(0.57)$	0.07115	$0.0731^{+0.0033}_{-0.0031}$

Best-fit $\chi_{\text{eff}}^2 = 7790.32$; R-1 = 0.00731

χ_{eff}^2 : CMB - lowl: -8.96 CamSpec: 7798.89

13.14 base_nrun_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02236^{+0.00074}_{-0.00074}$	$r_{143 \times 217}^{\text{CIB}}$	0.539	< 0.814	$\Omega_m h^3$	0.09616	$0.0962^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.1196	$0.1179^{+0.0065}_{-0.0070}$	γ^{CIB}	0.519	$0.53^{+0.24}_{-0.24}$	Y_P	0.247767	$0.24783^{+0.00031}_{-0.00032}$
$100\theta_{\text{MC}}$	1.04137	$1.0416^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00058^{+0.00080}_{-0.00074}$	$10^9 A_s e^{-2\tau}$	1.8375	$1.832^{+0.033}_{-0.031}$
τ	0.081	$0.103^{+0.076}_{-0.075}$	c_{217}	0.99632	$0.9964^{+0.0026}_{-0.0026}$	Age/Gyr	13.799	$13.77^{+0.13}_{-0.13}$
n_s	0.9571	$0.964^{+0.022}_{-0.020}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.20	$1089.9^{+1.4}_{-1.4}$
$dn_s/d \ln k$	-0.0095	$-0.011^{+0.018}_{-0.018}$	A^{kSZ}	7.25	—	r_*	144.65	$145.0^{+1.5}_{-1.4}$
$\ln(10^{10} A_s)$	3.073	$3.11^{+0.14}_{-0.14}$	β_1^1	0.64	$0.5^{+1.1}_{-1.2}$	$100\theta_*$	1.04150	$1.0417^{+0.0014}_{-0.0014}$
A_{100}^{PS}	133	175^{+100}_{-100}	Ω_Λ	0.6874	$0.697^{+0.041}_{-0.041}$	z_{drag}	1059.59	$1059.8^{+1.5}_{-1.5}$
A_{143}^{PS}	34	51^{+30}_{-30}	Ω_m	0.3126	$0.303^{+0.041}_{-0.041}$	r_{drag}	147.38	$147.7^{+1.3}_{-1.3}$
A_{217}^{PS}	100.9	102^{+30}_{-30}	σ_8	0.8184	$0.830^{+0.041}_{-0.039}$	k_D	0.14033	$0.1402^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	6.68	—	z_{re}	10.3	$11.8^{+5.5}_{-6.3}$	$100\theta_D$	0.16118	$0.16106^{+0.00080}_{-0.00075}$
A_{217}^{CIB}	30.0	31^{+20}_{-20}	H_0	67.51	$68.3^{+3.3}_{-3.2}$	z_{eq}	3388	3352^{+140}_{-160}
A_{143}^{tSZ}	9.77	—	$10^9 A_s$	2.160	$2.26^{+0.32}_{-0.30}$	$100\theta_{\text{eq}}$	0.8157	$0.823^{+0.030}_{-0.030}$
$r_{143 \times 217}^{\text{PS}}$	0.899	> 0.720	$\Omega_m h^2$	0.1424	$0.1409^{+0.0060}_{-0.0065}$	$r_{\text{drag}}/D_V(0.57)$	0.07156	$0.0722^{+0.0025}_{-0.0024}$

Best-fit $\chi^2_{\text{eff}} = 7800.74$; R-1 = 0.07717

χ^2_{eff} : CMB - lensing: 9.99 lowl: -9.02 CamSpec: 7798.94

13.15 base_nrun_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02233	$0.02267^{+0.00075}_{-0.00072}$	$r_{143 \times 217}^{\text{CIB}}$	0.436	< 0.821	$\Omega_m h^3$	0.09633	$0.0969^{+0.0015}_{-0.0014}$
$\Omega_c h^2$	0.11876	$0.1178^{+0.0038}_{-0.0037}$	γ^{CIB}	0.523	$0.54^{+0.23}_{-0.25}$	Y_P	0.247823	$0.24797^{+0.00031}_{-0.00031}$
$100\theta_{\text{MC}}$	1.04153	$1.0417^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8374	$1.837^{+0.022}_{-0.021}$
τ	0.116	$0.178^{+0.088}_{-0.096}$	c_{217}	0.99637	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.778	$13.73^{+0.10}_{-0.10}$
n_s	0.9622	$0.966^{+0.015}_{-0.015}$	$\xi^{\text{SZ-CIB}}$	0.00	—	z_*	1089.96	$1089.5^{+1.1}_{-1.1}$
$dn_s/d \ln k$	-0.0131	$-0.027^{+0.024}_{-0.026}$	A^{kSZ}	4.10	—	r_*	144.77	$144.76^{+0.87}_{-0.88}$
$\ln(10^{10} A_s)$	3.144	$3.27^{+0.18}_{-0.19}$	β_1^1	0.69	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04166	$1.0418^{+0.0011}_{-0.0011}$
A_{100}^{PS}	136	174^{+100}_{-100}	Ω_Λ	0.6932	$0.701^{+0.023}_{-0.024}$	z_{drag}	1059.82	$1060.5^{+1.6}_{-1.6}$
A_{143}^{PS}	49.3	54^{+30}_{-30}	Ω_m	0.3068	$0.299^{+0.024}_{-0.023}$	r_{drag}	147.46	$147.34^{+0.94}_{-0.94}$
A_{217}^{PS}	111.9	105^{+30}_{-30}	σ_8	0.845	$0.892^{+0.071}_{-0.074}$	k_D	0.14035	$0.1407^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	3.27	—	z_{re}	13.2	$17.4^{+6.1}_{-6.4}$	$100\theta_D$	0.16105	$0.16067^{+0.00087}_{-0.00086}$
A_{217}^{CIB}	27	30^{+20}_{-10}	H_0	67.97	$68.7^{+1.9}_{-1.9}$	z_{eq}	3371	3357^{+84}_{-82}
A_{143}^{tSZ}	8.65	—	$10^9 A_s$	2.319	$2.63^{+0.49}_{-0.47}$	$100\theta_{\text{eq}}$	0.8192	$0.823^{+0.016}_{-0.016}$
$r_{143 \times 217}^{\text{PS}}$	0.883	> 0.730	$\Omega_m h^2$	0.14174	$0.1411^{+0.0035}_{-0.0034}$	$r_{\text{drag}}/D_V(0.57)$	0.07187	$0.0723^{+0.0014}_{-0.0013}$

Best-fit $\chi_{\text{eff}}^2 = 7790.21$; R-1 = 0.01221

χ_{eff}^2 : BAO - DR7: 1.00 6DF: 0.02 DR9: 0.35 CMB - lowl: -9.26 CamSpec: 7797.31

13.16 base_nrun_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02237	$0.0234^{+0.0011}_{-0.0010}$	$r_{143 \times 217}^{\text{CIB}}$	0.396	< 0.795	$\Omega_m h^3$	0.09629	$0.0977^{+0.0017}_{-0.0016}$
$\Omega_c h^2$	0.1177	$0.1122^{+0.0063}_{-0.0061}$	γ^{CIB}	0.525	$0.53^{+0.24}_{-0.26}$	Y_P	0.247838	$0.24829^{+0.00043}_{-0.00042}$
$100\theta_{\text{MC}}$	1.04169	$1.0427^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00080}$	$10^9 A_s e^{-2\tau}$	1.8313	$1.817^{+0.028}_{-0.026}$
τ	0.102	$0.26^{+0.11}_{-0.12}$	c_{217}	0.99631	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.765	$13.60^{+0.16}_{-0.17}$
n_s	0.9625	$0.986^{+0.024}_{-0.023}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.83	$1088.1^{+1.6}_{-1.6}$
$dn_s/d \ln k$	-0.0119	$-0.044^{+0.031}_{-0.033}$	A^{kSZ}	7.95	—	r_*	145.01	$145.6^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.111	$3.42^{+0.21}_{-0.23}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04181	$1.0427^{+0.0014}_{-0.0014}$
A_{100}^{PS}	132	162^{+100}_{-100}	Ω_Λ	0.6993	$0.734^{+0.036}_{-0.037}$	z_{drag}	1059.86	$1061.9^{+2.1}_{-2.0}$
A_{143}^{PS}	42	50^{+30}_{-20}	Ω_m	0.3007	$0.266^{+0.037}_{-0.036}$	r_{drag}	147.69	$148.0^{+1.1}_{-1.1}$
A_{217}^{PS}	106.3	105^{+30}_{-30}	σ_8	0.828	$0.939^{+0.075}_{-0.082}$	k_D	0.14013	$0.1406^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	3.65	—	z_{re}	12.0	22^{+6}_{-6}	$100\theta_D$	0.16107	$0.1600^{+0.0010}_{-0.0010}$
A_{217}^{CIB}	27	28^{+20}_{-10}	H_0	68.42	$71.7^{+3.5}_{-3.3}$	z_{eq}	3348	3241^{+130}_{-130}
A_{143}^{tSZ}	8.45	—	$10^9 A_s$	2.24	$3.08^{+0.69}_{-0.64}$	$100\theta_{\text{eq}}$	0.8238	$0.848^{+0.029}_{-0.028}$
$r_{143 \times 217}^{\text{PS}}$	0.888	> 0.732	$\Omega_m h^2$	0.1407	$0.1363^{+0.0056}_{-0.0053}$	$r_{\text{drag}}/D_V(0.57)$	0.07224	$0.0745^{+0.0025}_{-0.0024}$

Best-fit $\chi^2_{\text{eff}} = 7795.58$; R-1 = 0.01149

χ^2_{eff} : CMB - lowl: -9.39 CamSpec: 7799.18 Hubble - HST: 5.03

13.17 base_nrun_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.0233^{+0.0012}_{-0.0012}$	$r_{143 \times 217}^{\text{CIB}}$	0.600	< 0.801	$\Omega_m h^3$	0.09619	$0.0976^{+0.0019}_{-0.0017}$
$\Omega_c h^2$	0.1188	$0.1129^{+0.0071}_{-0.0071}$	γ^{CIB}	0.514	$0.53^{+0.24}_{-0.26}$	Y_P	0.247793	$0.24824^{+0.00050}_{-0.00045}$
$100\theta_{\text{MC}}$	1.04150	$1.0425^{+0.0016}_{-0.0016}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8348	$1.819^{+0.031}_{-0.029}$
τ	0.096	$0.25^{+0.12}_{-0.13}$	c_{217}	0.99635	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.786	$13.62^{+0.17}_{-0.20}$
n_s	0.9606	$0.983^{+0.028}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.05	$1088.3^{+1.8}_{-1.9}$
$dn_s/d \ln k$	-0.0103	$-0.042^{+0.032}_{-0.036}$	A^{kSZ}	1.31	—	r_*	144.83	$145.5^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.102	$3.40^{+0.23}_{-0.25}$	β_1^1	0.60	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0426^{+0.0015}_{-0.0015}$
A_{100}^{PS}	150	163^{+100}_{-100}	Ω_Λ	0.6927	$0.730^{+0.040}_{-0.043}$	z_{drag}	1059.67	$1061.7^{+2.3}_{-2.1}$
A_{143}^{PS}	42	51^{+30}_{-20}	Ω_m	0.3073	$0.270^{+0.043}_{-0.040}$	r_{drag}	147.53	$147.9^{+1.2}_{-1.2}$
A_{217}^{PS}	106.1	105^{+30}_{-30}	σ_8	0.828	$0.931^{+0.081}_{-0.088}$	k_D	0.14021	$0.1406^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	8.86	—	z_{re}	11.6	21^{+7}_{-7}	$100\theta_D$	0.16115	$0.1601^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	32.6	29^{+20}_{-10}	H_0	67.90	$71.3^{+4.1}_{-3.7}$	z_{eq}	3370	3256^{+150}_{-150}
A_{143}^{tSZ}	9.87	—	$10^9 A_s$	2.22	$3.02^{+0.75}_{-0.73}$	$100\theta_{\text{eq}}$	0.8193	$0.845^{+0.033}_{-0.031}$
$r_{143 \times 217}^{\text{PS}}$	0.884	> 0.732	$\Omega_m h^2$	0.1417	$0.1369^{+0.0063}_{-0.0061}$	$r_{\text{drag}}/D_V(0.57)$	0.07186	$0.0742^{+0.0030}_{-0.0027}$

Best-fit $\chi_{\text{eff}}^2 = 8219.32$; R-1 = 0.00968

χ_{eff}^2 : CMB - lowl: -9.14 CamSpec: 7798.44 SN - SNLS: 429.15

13.18 base_nrun_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02219	$0.0230^{+0.0012}_{-0.0011}$	$r_{143 \times 217}^{\text{CIB}}$	0.601	< 0.811	$\Omega_m h^3$	0.09616	$0.0973^{+0.0019}_{-0.0017}$
$\Omega_c h^2$	0.1197	$0.1152^{+0.0072}_{-0.0075}$	γ^{CIB}	0.515	$0.53^{+0.24}_{-0.25}$	Y_P	0.247761	$0.24811^{+0.00049}_{-0.00044}$
$100\theta_{\text{MC}}$	1.04137	$1.0422^{+0.0016}_{-0.0015}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8389	$1.828^{+0.032}_{-0.030}$
τ	0.095	$0.22^{+0.13}_{-0.13}$	c_{217}	0.99637	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.801	$13.67^{+0.18}_{-0.19}$
n_s	0.9585	$0.975^{+0.027}_{-0.026}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.23	$1088.8^{+1.8}_{-1.9}$
$dn_s/d \ln k$	-0.0098	$-0.035^{+0.032}_{-0.034}$	A^{kSZ}	0.9	—	r_*	144.63	$145.2^{+1.3}_{-1.4}$
$\ln(10^{10} A_s)$	3.101	$3.34^{+0.24}_{-0.25}$	β_1^1	0.62	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04152	$1.0422^{+0.0015}_{-0.0015}$
A_{100}^{PS}	152	168^{+100}_{-100}	Ω_Λ	0.6867	$0.716^{+0.043}_{-0.046}$	z_{drag}	1059.55	$1061.1^{+2.3}_{-2.0}$
A_{143}^{PS}	42	52^{+30}_{-30}	Ω_m	0.3133	$0.284^{+0.046}_{-0.043}$	r_{drag}	147.36	$147.6^{+1.2}_{-1.2}$
A_{217}^{PS}	107.5	105^{+30}_{-30}	σ_8	0.830	$0.913^{+0.084}_{-0.089}$	k_D	0.14034	$0.1406^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	9.12	—	z_{re}	11.5	$19.5^{+7.4}_{-7.9}$	$100\theta_D$	0.16120	$0.1604^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	32.6	29^{+20}_{-10}	H_0	67.45	$70.1^{+4.1}_{-3.7}$	z_{eq}	3391	3303^{+150}_{-160}
A_{143}^{tSZ}	9.97	—	$10^9 A_s$	2.22	$2.84^{+0.73}_{-0.69}$	$100\theta_{\text{eq}}$	0.8151	$0.835^{+0.034}_{-0.031}$
$r_{143 \times 217}^{\text{PS}}$	0.888	> 0.732	$\Omega_m h^2$	0.1426	$0.1389^{+0.0064}_{-0.0065}$	$r_{\text{drag}}/D_V(0.57)$	0.07152	$0.0733^{+0.0029}_{-0.0028}$

Best-fit $\chi_{\text{eff}}^2 = 7920.35$; R-1 = 0.00756

χ_{eff}^2 : CMB - lowl: -8.91 CamSpec: 7797.89 SN - Union2.1: 130.51

13.19 base_nrun_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02266	$0.0224^{+0.0014}_{-0.0013}$	σ_8	0.815	$0.814^{+0.052}_{-0.054}$	r_*	145.59	$145.4^{+3.1}_{-3.0}$
$\Omega_c h^2$	0.1147	$0.116^{+0.013}_{-0.014}$	z_{re}	10.85	$10.9^{+2.5}_{-2.4}$	$100\theta_*$	1.04066	$1.0402^{+0.0043}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04056	$1.0401^{+0.0044}_{-0.0045}$	H_0	69.4	$68.6^{+6.5}_{-6.2}$	z_{drag}	1060.28	$1059.9^{+2.6}_{-2.5}$
τ	0.0904	$0.090^{+0.029}_{-0.028}$	$10^9 A_s$	2.220	$2.22^{+0.16}_{-0.15}$	r_{drag}	148.19	$148.1^{+2.9}_{-2.9}$
n_s	0.973	< 1.02	$\Omega_m h^2$	0.1380	$0.139^{+0.013}_{-0.013}$	k_D	0.13982	$0.1398^{+0.0029}_{-0.0029}$
$dn_s/d \ln k$	-0.0015	$-0.011^{+0.046}_{-0.044}$	$\Omega_m h^3$	0.09574	$0.0953^{+0.0036}_{-0.0034}$	$100\theta_D$	0.16060	$0.1608^{+0.0012}_{-0.0013}$
$\ln(10^{10} A_s)$	3.100	$3.100^{+0.072}_{-0.068}$	Y_P	0.24796	$0.24786^{+0.00058}_{-0.00055}$	z_{eq}	3281	3311^{+300}_{-300}
A_{tSZ}	0.76	—	$10^9 A_s e^{-2\tau}$	1.853	$1.855^{+0.078}_{-0.074}$	$100\theta_{\text{eq}}$	0.836	$0.831^{+0.062}_{-0.060}$
Ω_Λ	0.713	$0.701^{+0.075}_{-0.083}$	Age/Gyr	13.755	$13.79^{+0.27}_{-0.28}$	$r_{\text{drag}}/D_V(0.57)$	0.07298	$0.0725^{+0.0050}_{-0.0047}$
Ω_m	0.287	$0.299^{+0.083}_{-0.075}$	z_*	1089.20	$1089.6^{+2.6}_{-2.6}$			

Best-fit $\chi^2_{\text{eff}} = 7557.91$; R-1 = 0.01179

χ^2_{eff} : CMB - WMAP: 7557.91

13.20 base_nrun_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02240	$0.02233^{+0.00097}_{-0.00091}$	σ_8	0.8180	$0.816^{+0.037}_{-0.037}$	r_*	145.31	$145.3^{+1.6}_{-1.6}$
$\Omega_c h^2$	0.1165	$0.1168^{+0.0054}_{-0.0052}$	z_{re}	10.70	$11.0^{+2.5}_{-2.4}$	$100\theta_*$	1.03998	$1.0401^{+0.0039}_{-0.0041}$
$100\theta_{\text{MC}}$	1.03985	$1.0400^{+0.0040}_{-0.0042}$	H_0	68.27	$68.2^{+2.0}_{-2.0}$	z_{drag}	1059.82	$1059.7^{+2.3}_{-2.2}$
τ	0.0873	$0.090^{+0.030}_{-0.028}$	$10^9 A_s$	2.217	$2.23^{+0.15}_{-0.13}$	r_{drag}	147.98	$148.0^{+1.8}_{-1.8}$
n_s	0.9637	$0.954^{+0.039}_{-0.038}$	$\Omega_m h^2$	0.1396	$0.1398^{+0.0055}_{-0.0053}$	k_D	0.13985	$0.1398^{+0.0024}_{-0.0024}$
$dn_s/d \ln k$	-0.0063	$-0.014^{+0.033}_{-0.032}$	$\Omega_m h^3$	0.09527	$0.0953^{+0.0035}_{-0.0034}$	$100\theta_D$	0.16078	$0.1609^{+0.0011}_{-0.0011}$
$\ln(10^{10} A_s)$	3.099	$3.102^{+0.068}_{-0.061}$	Y_P	0.247852	$0.24782^{+0.00041}_{-0.00039}$	z_{eq}	3319	3325^{+130}_{-130}
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.8621	$1.857^{+0.045}_{-0.046}$	$100\theta_{\text{eq}}$	0.8277	$0.827^{+0.022}_{-0.022}$
Ω_Λ	0.7006	$0.699^{+0.024}_{-0.027}$	Age/Gyr	13.810	$13.82^{+0.17}_{-0.17}$	$r_{\text{drag}}/D_V(0.57)$	0.07218	$0.0721^{+0.0015}_{-0.0015}$
Ω_m	0.2994	$0.301^{+0.027}_{-0.024}$	z_*	1089.68	$1089.8^{+1.2}_{-1.2}$			

Best-fit $\chi^2_{\text{eff}} = 7558.83$; R-1 = 0.02100

χ^2_{eff} : BAO - 6DF: 0.04 DR7: 0.47 DR9: 0.72 CMB - WMAP: 7557.60

13.21 base_nrun_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02288	$0.0230^{+0.0011}_{-0.0011}$	σ_8	0.8012	$0.793^{+0.045}_{-0.042}$	r_*	146.45	$146.8^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1108	$0.1092^{+0.0089}_{-0.0085}$	z_{re}	11.23	$10.6^{+2.4}_{-2.3}$	$100\theta_*$	1.04106	$1.0413^{+0.0041}_{-0.0043}$
$100\theta_{\text{MC}}$	1.04097	$1.0412^{+0.0042}_{-0.0044}$	H_0	71.18	$72.1^{+4.0}_{-4.0}$	z_{drag}	1060.54	$1060.8^{+2.4}_{-2.3}$
τ	0.0969	$0.091^{+0.029}_{-0.027}$	$10^9 A_s$	2.220	$2.19^{+0.14}_{-0.14}$	r_{drag}	148.99	$149.3^{+2.3}_{-2.3}$
n_s	0.979	$0.991^{+0.051}_{-0.050}$	$\Omega_m h^2$	0.1343	$0.1329^{+0.0087}_{-0.0081}$	k_D	0.13914	$0.1389^{+0.0026}_{-0.0026}$
$dn_s/d \ln k$	-0.0015	$0.008^{+0.038}_{-0.039}$	$\Omega_m h^3$	0.09563	$0.0957^{+0.0035}_{-0.0036}$	$100\theta_D$	0.16050	$0.1604^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.100	$3.084^{+0.066}_{-0.066}$	Y_P	0.248056	$0.24812^{+0.00046}_{-0.00046}$	z_{eq}	3195	3159^{+210}_{-190}
A_{tSZ}	1.35	—	$10^9 A_s e^{-2\tau}$	1.829	$1.823^{+0.058}_{-0.055}$	$100\theta_{\text{eq}}$	0.8541	$0.863^{+0.041}_{-0.041}$
Ω_Λ	0.7348	$0.743^{+0.042}_{-0.046}$	Age/Gyr	13.699	$13.66^{+0.21}_{-0.21}$	$r_{\text{drag}}/D_V(0.57)$	0.07441	$0.0751^{+0.0032}_{-0.0031}$
Ω_m	0.2652	$0.257^{+0.046}_{-0.042}$	z_*	1088.59	$1088.3^{+1.8}_{-1.7}$			

Best-fit $\chi^2_{\text{eff}} = 7559.95$; R-1 = 0.02574

χ^2_{eff} : CMB - WMAP: 7558.69 Hubble - HST: 1.26

13.22 base_nrun_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02279	$0.0229^{+0.0013}_{-0.0013}$	σ_8	0.8042	$0.795^{+0.047}_{-0.045}$	r_*	146.27	$146.6^{+2.4}_{-2.4}$
$\Omega_c h^2$	0.1117	$0.110^{+0.010}_{-0.010}$	z_{re}	11.07	$10.7^{+2.5}_{-2.3}$	$100\theta_*$	1.04083	$1.0409^{+0.0043}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04073	$1.0408^{+0.0044}_{-0.0045}$	H_0	70.7	$71.5^{+5.3}_{-5.2}$	z_{drag}	1060.39	$1060.5^{+2.7}_{-2.5}$
τ	0.0944	$0.090^{+0.029}_{-0.028}$	$10^9 A_s$	2.217	$2.19^{+0.15}_{-0.15}$	r_{drag}	148.84	$149.2^{+2.4}_{-2.4}$
n_s	0.977	$0.985^{+0.060}_{-0.056}$	$\Omega_m h^2$	0.1352	$0.1337^{+0.0097}_{-0.0096}$	k_D	0.13924	$0.1389^{+0.0026}_{-0.0026}$
$dn_s/d \ln k$	-0.0016	$0.005^{+0.043}_{-0.041}$	$\Omega_m h^3$	0.09553	$0.0954^{+0.0036}_{-0.0036}$	$100\theta_D$	0.16055	$0.1605^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.099	$3.086^{+0.067}_{-0.068}$	Y_P	0.24802	$0.24806^{+0.00054}_{-0.00054}$	z_{eq}	3215	3179^{+230}_{-230}
A_{tSZ}	0.90	—	$10^9 A_s e^{-2\tau}$	1.836	$1.826^{+0.061}_{-0.060}$	$100\theta_{\text{eq}}$	0.850	$0.858^{+0.051}_{-0.050}$
Ω_Λ	0.729	$0.737^{+0.052}_{-0.058}$	Age/Gyr	13.720	$13.70^{+0.24}_{-0.26}$	$r_{\text{drag}}/D_V(0.57)$	0.07402	$0.0747^{+0.0041}_{-0.0040}$
Ω_m	0.271	$0.263^{+0.058}_{-0.052}$	z_*	1088.78	$1088.5^{+2.1}_{-2.1}$			

Best-fit $\chi^2_{\text{eff}} = 7984.85$; R-1 = 0.02186

χ^2_{eff} : CMB - WMAP: 7558.30 SN - SNLS: 426.55

13.23 base_nrun_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02265	$0.0225^{+0.0012}_{-0.0012}$	σ_8	0.8122	$0.809^{+0.047}_{-0.048}$	r_*	145.78	$145.7^{+2.5}_{-2.5}$
$\Omega_c h^2$	0.1140	$0.115^{+0.011}_{-0.011}$	z_{re}	10.91	$10.8^{+2.5}_{-2.4}$	$100\theta_*$	1.04054	$1.0404^{+0.0042}_{-0.0043}$
$100\theta_{\text{MC}}$	1.04044	$1.0403^{+0.0043}_{-0.0044}$	H_0	69.6	$69.3^{+5.3}_{-5.1}$	z_{drag}	1060.24	$1060.0^{+2.5}_{-2.4}$
τ	0.0913	$0.090^{+0.029}_{-0.028}$	$10^9 A_s$	2.219	$2.21^{+0.16}_{-0.15}$	r_{drag}	148.37	$148.4^{+2.6}_{-2.5}$
n_s	0.973	$0.965^{+0.056}_{-0.059}$	$\Omega_m h^2$	0.1373	$0.138^{+0.010}_{-0.010}$	k_D	0.13963	$0.1395^{+0.0027}_{-0.0026}$
$dn_s/d \ln k$	-0.0019	$-0.007^{+0.043}_{-0.039}$	$\Omega_m h^3$	0.09556	$0.0954^{+0.0035}_{-0.0035}$	$100\theta_D$	0.16060	$0.1608^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.097^{+0.070}_{-0.069}$	Y_P	0.24796	$0.24791^{+0.00053}_{-0.00049}$	z_{eq}	3265	3275^{+250}_{-240}
A_{tSZ}	0.70	—	$10^9 A_s e^{-2\tau}$	1.849	$1.847^{+0.066}_{-0.062}$	$100\theta_{\text{eq}}$	0.839	$0.838^{+0.051}_{-0.050}$
Ω_Λ	0.717	$0.712^{+0.059}_{-0.064}$	Age/Gyr	13.755	$13.77^{+0.24}_{-0.25}$	$r_{\text{drag}}/D_V(0.57)$	0.07316	$0.0730^{+0.0041}_{-0.0039}$
Ω_m	0.283	$0.288^{+0.064}_{-0.059}$	z_*	1089.14	$1089.4^{+2.1}_{-2.2}$			

Best-fit $\chi^2_{\text{eff}} = 7687.79$; R-1 = 0.01467

χ^2_{eff} : CMB - WMAP: 7557.88 SN - Union2.1: 129.91

14 nrun+r

14.1 base_nrun_r_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02231^{+0.00064}_{-0.00062}$	$r_{143 \times 217}^{\text{CIB}}$	0.322	$0.49^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.09611	$0.0964^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.1199	$0.1198^{+0.0055}_{-0.0053}$	γ^{CIB}	0.533	$0.53^{+0.24}_{-0.26}$	Y_P	0.247746	$0.24781^{+0.00027}_{-0.00027}$
$100\theta_{\text{MC}}$	1.04133	$1.0414^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8409	$1.844^{+0.029}_{-0.028}$
τ	0.0938	$0.100^{+0.032}_{-0.031}$	c_{217}	0.99638	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.806	$13.79^{+0.10}_{-0.10}$
n_s	0.9604	$0.958^{+0.016}_{-0.016}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.30	$1090.1^{+1.1}_{-1.1}$
$dn_s/d \ln k$	-0.0075	$-0.021^{+0.022}_{-0.023}$	A^{kSZ}	3.25	—	r_*	144.61	$144.5^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.100	$3.114^{+0.065}_{-0.062}$	β_1^1	0.71	$0.7^{+1.1}_{-1.1}$	$100\theta_*$	1.04148	$1.0415^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.247	Ω_Λ	0.6853	$0.687^{+0.032}_{-0.035}$	z_{drag}	1059.51	$1059.9^{+1.3}_{-1.3}$
A_{100}^{PS}	146	186^{+100}_{-100}	Ω_m	0.3147	$0.313^{+0.035}_{-0.032}$	r_{drag}	147.35	$147.2^{+1.2}_{-1.2}$
A_{143}^{PS}	53.4	56^{+30}_{-30}	σ_8	0.8318	$0.833^{+0.028}_{-0.027}$	k_D	0.14032	$0.1406^{+0.0014}_{-0.0013}$
A_{217}^{PS}	115.3	103^{+40}_{-40}	z_{re}	11.43	$11.9^{+2.5}_{-2.4}$	$100\theta_D$	0.16124	$0.16104^{+0.00076}_{-0.00073}$
A_{143}^{CIB}	3.08	—	H_0	67.34	$67.6^{+2.4}_{-2.4}$	z_{eq}	3395	3396^{+120}_{-120}
A_{217}^{CIB}	27	32^{+20}_{-20}	$r_{0.002}$	0.000	< 0.285	$100\theta_{\text{eq}}$	0.8143	$0.815^{+0.023}_{-0.023}$
A_{143}^{tSZ}	7.54	—	$10^9 A_s$	2.221	$2.25^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_V(0.57)$	0.07145	$0.0715^{+0.0019}_{-0.0018}$
$r_{143 \times 217}^{\text{PS}}$	0.887	> 0.719	$\Omega_m h^2$	0.1427	$0.1428^{+0.0052}_{-0.0049}$			

Best-fit $\chi_{\text{eff}}^2 = 9804.37$; R-1 = 0.01009

χ_{eff}^2 : CMB - lowLike: 2014.45 lowl: -8.64 CamSpec: 7797.86

14.2 base_nrun_r_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02243^{+0.00065}_{-0.00061}$	$r_{143 \times 217}^{\text{CIB}}$	0.507	$0.49^{+0.36}_{-0.48}$	$\Omega_m h^3$	0.09615	$0.0964^{+0.0012}_{-0.0012}$
$\Omega_c h^2$	0.11802	$0.1179^{+0.0043}_{-0.0044}$	γ^{CIB}	0.557	$0.53^{+0.25}_{-0.26}$	Y_P	0.247810	$0.24787^{+0.00027}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04152	$1.0416^{+0.0012}_{-0.0012}$	c_{100}	1.00058	$1.00058^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8337	$1.834^{+0.022}_{-0.022}$
τ	0.0953	$0.097^{+0.029}_{-0.029}$	c_{217}	0.99641	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.777	$13.761^{+0.095}_{-0.10}$
n_s	0.9674	$0.963^{+0.015}_{-0.014}$	$\xi^{\text{tSZ-CIB}}$	0.33	—	z_*	1089.94	$1089.8^{+1.0}_{-1.1}$
$dn_s/d \ln k$	-0.0034	$-0.017^{+0.020}_{-0.023}$	A^{kSZ}	0.98	—	r_*	144.99	$144.93^{+0.96}_{-0.96}$
$\ln(10^{10} A_s)$	3.100	$3.102^{+0.056}_{-0.052}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04166	$1.0417^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.255	Ω_Λ	0.6970	$0.698^{+0.026}_{-0.027}$	z_{drag}	1059.70	$1060.0^{+1.3}_{-1.3}$
A_{100}^{PS}	164	180^{+100}_{-100}	Ω_m	0.3030	$0.302^{+0.027}_{-0.026}$	r_{drag}	147.69	$147.58^{+0.97}_{-0.97}$
A_{143}^{PS}	65.9	53^{+30}_{-30}	σ_8	0.8281	$0.823^{+0.020}_{-0.020}$	k_D	0.14009	$0.1403^{+0.0012}_{-0.0012}$
A_{217}^{PS}	119.0	101^{+40}_{-40}	z_{re}	11.47	$11.5^{+2.3}_{-2.3}$	$100\theta_D$	0.16112	$0.16096^{+0.00075}_{-0.00073}$
A_{143}^{CIB}	0.0	—	H_0	68.21	$68.4^{+2.2}_{-2.1}$	z_{eq}	3353	3352^{+96}_{-95}
A_{217}^{CIB}	25	31^{+20}_{-20}	$r_{0.002}$	0.000	< 0.297	$100\theta_{\text{eq}}$	0.8225	$0.823^{+0.019}_{-0.018}$
A_{143}^{tSZ}	4.98	—	$10^9 A_s$	2.219	$2.23^{+0.12}_{-0.12}$	$r_{\text{drag}}/D_V(0.57)$	0.07210	$0.0722^{+0.0016}_{-0.0015}$
$r_{143 \times 217}^{\text{PS}}$	0.924	> 0.713	$\Omega_m h^2$	0.14096	$0.1409^{+0.0040}_{-0.0040}$			

Best-fit $\chi_{\text{eff}}^2 = 9815.60$; R-1 = 0.01473

χ_{eff}^2 : CMB - lowLike: 2014.42 lensing: 9.84 lowl: -8.46 CamSpec: 7799.29

14.3 base_nrun_r_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02225	$0.02238^{+0.00056}_{-0.00056}$	$r_{143 \times 217}^{\text{CIB}}$	0.379	$0.49^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.09622	$0.0964^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.11909	$0.1188^{+0.0035}_{-0.0034}$	γ^{CIB}	0.527	$0.53^{+0.24}_{-0.26}$	Y_P	0.247787	$0.24784^{+0.00024}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04148	$1.0415^{+0.0011}_{-0.0011}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8368	$1.839^{+0.022}_{-0.021}$
τ	0.0950	$0.102^{+0.032}_{-0.029}$	c_{217}	0.99632	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.789	$13.772^{+0.080}_{-0.079}$
n_s	0.9595	$0.961^{+0.012}_{-0.012}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.10	$1089.91^{+0.85}_{-0.83}$
$dn_s/d \ln k$	-0.0109	$-0.021^{+0.021}_{-0.023}$	A^{kSZ}	7.86	—	r_*	144.75	$144.73^{+0.85}_{-0.87}$
$\ln(10^{10} A_s)$	3.101	$3.115^{+0.066}_{-0.060}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04162	$1.0417^{+0.0011}_{-0.0011}$
$r_{0.05}$	0.000	< 0.254	Ω_Λ	0.6908	$0.693^{+0.020}_{-0.021}$	z_{drag}	1059.67	$1059.9^{+1.2}_{-1.3}$
A_{100}^{PS}	135	184^{+100}_{-100}	Ω_m	0.3092	$0.307^{+0.021}_{-0.020}$	r_{drag}	147.46	$147.40^{+0.93}_{-0.94}$
A_{143}^{PS}	43	56^{+30}_{-30}	σ_8	0.8278	$0.831^{+0.027}_{-0.025}$	k_D	0.14028	$0.1404^{+0.0012}_{-0.0012}$
A_{217}^{PS}	107.2	103^{+40}_{-40}	z_{re}	11.49	$12.0^{+2.5}_{-2.4}$	$100\theta_D$	0.16115	$0.16100^{+0.00073}_{-0.00070}$
A_{143}^{CIB}	3.60	—	H_0	67.77	$68.0^{+1.6}_{-1.6}$	z_{eq}	3377	3373^{+81}_{-77}
A_{217}^{CIB}	27	32^{+20}_{-20}	$r_{0.002}$	0.000	< 0.295	$100\theta_{\text{eq}}$	0.8179	$0.819^{+0.015}_{-0.015}$
A_{143}^{tSZ}	8.19	—	$10^9 A_s$	2.221	$2.26^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_V(0.57)$	0.07175	$0.0719^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.719	$\Omega_m h^2$	0.14199	$0.1418^{+0.0034}_{-0.0032}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.96$; R-1 = 0.01090

χ_{eff}^2 : BAO - DR9: 0.23 DR7: 1.26 6DF: 0.01 CMB - lowLike: 2014.43 lowl: -9.17 CamSpec: 7798.44

14.4 base_nrun_r_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02232	$0.02255^{+0.00065}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.430	$0.50^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.09624	$0.0966^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.11822	$0.1171^{+0.0048}_{-0.0047}$	γ^{CIB}	0.523	$0.53^{+0.25}_{-0.26}$	Y_P	0.247817	$0.24791^{+0.00027}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04157	$1.0418^{+0.0012}_{-0.0012}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8333	$1.832^{+0.026}_{-0.025}$
τ	0.0961	$0.106^{+0.034}_{-0.033}$	c_{217}	0.99633	$0.9965^{+0.0026}_{-0.0027}$	Age/Gyr	13.775	$13.739^{+0.094}_{-0.099}$
n_s	0.9619	$0.965^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.93	$1089.5^{+1.0}_{-1.0}$
$dn_s/d \ln k$	-0.0104	$-0.022^{+0.021}_{-0.024}$	A^{kSZ}	6.14	—	r_*	144.92	$145.0^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.101	$3.120^{+0.070}_{-0.062}$	β_1^1	0.66	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04172	$1.0419^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.004	< 0.284	Ω_Λ	0.6962	$0.704^{+0.027}_{-0.029}$	z_{drag}	1059.78	$1060.2^{+1.3}_{-1.3}$
A_{100}^{PS}	135	182^{+100}_{-100}	Ω_m	0.3038	$0.296^{+0.029}_{-0.027}$	r_{drag}	147.61	$147.7^{+1.1}_{-1.1}$
A_{143}^{PS}	44	54^{+30}_{-30}	σ_8	0.8255	$0.827^{+0.029}_{-0.027}$	k_D	0.14017	$0.1403^{+0.0013}_{-0.0013}$
A_{217}^{PS}	108.3	102^{+40}_{-40}	z_{re}	11.53	$12.2^{+2.7}_{-2.5}$	$100\theta_D$	0.16110	$0.16087^{+0.00073}_{-0.00073}$
A_{143}^{CIB}	3.94	—	H_0	68.17	$68.9^{+2.3}_{-2.2}$	z_{eq}	3358	3336^{+110}_{-110}
A_{217}^{CIB}	27	32^{+20}_{-20}	$r_{0.002}$	0.004	< 0.347	$100\theta_{\text{eq}}$	0.8216	$0.827^{+0.021}_{-0.021}$
A_{143}^{tSZ}	8.65	—	$10^9 A_s$	2.222	$2.27^{+0.16}_{-0.15}$	$r_{\text{drag}}/D_V(0.57)$	0.07205	$0.0725^{+0.0017}_{-0.0017}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.713	$\Omega_m h^2$	0.14118	$0.1403^{+0.0046}_{-0.0045}$			

Best-fit $\chi_{\text{eff}}^2 = 9810.45$; R-1 = 0.01512

χ_{eff}^2 : CMB - lowLike: 2014.39 lowl: -9.21 CamSpec: 7799.00 Hubble - HST: 5.49

14.5 base_nrun_r_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02245^{+0.00064}_{-0.00061}$	$r_{143 \times 217}^{\text{CIB}}$	0.361	$0.49^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.09621	$0.0965^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.11884	$0.1180^{+0.0050}_{-0.0049}$	γ^{CIB}	0.528	$0.53^{+0.24}_{-0.26}$	Y_P	0.247794	$0.24787^{+0.00027}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04149	$1.0417^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8357	$1.836^{+0.027}_{-0.026}$
τ	0.0953	$0.103^{+0.033}_{-0.032}$	c_{217}	0.99632	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.786	$13.758^{+0.097}_{-0.10}$
n_s	0.9600	$0.963^{+0.016}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.06	$1089.8^{+1.1}_{-1.1}$
$dn_s/d \ln k$	-0.0111	$-0.021^{+0.021}_{-0.024}$	A^{kSZ}	8.02	—	r_*	144.80	$144.9^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.101	$3.117^{+0.067}_{-0.065}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04163	$1.0418^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.269	Ω_Λ	0.6923	$0.698^{+0.029}_{-0.031}$	z_{drag}	1059.67	$1060.0^{+1.3}_{-1.3}$
A_{100}^{PS}	135	183^{+100}_{-100}	Ω_m	0.3077	$0.302^{+0.031}_{-0.029}$	r_{drag}	147.51	$147.5^{+1.1}_{-1.2}$
A_{143}^{PS}	44	55^{+30}_{-30}	σ_8	0.8270	$0.829^{+0.029}_{-0.027}$	k_D	0.14024	$0.1403^{+0.0013}_{-0.0013}$
A_{217}^{PS}	107.4	103^{+40}_{-40}	z_{re}	11.50	$12.1^{+2.6}_{-2.4}$	$100\theta_D$	0.16114	$0.16095^{+0.00075}_{-0.00074}$
A_{143}^{CIB}	3.40	—	H_0	67.87	$68.4^{+2.3}_{-2.3}$	z_{eq}	3372	3355^{+110}_{-110}
A_{217}^{CIB}	27	32^{+20}_{-20}	$r_{0.002}$	0.000	< 0.319	$100\theta_{\text{eq}}$	0.8190	$0.823^{+0.022}_{-0.021}$
A_{143}^{tSZ}	8.06	—	$10^9 A_s$	2.221	$2.26^{+0.15}_{-0.15}$	$r_{\text{drag}}/D_V(0.57)$	0.07184	$0.0722^{+0.0018}_{-0.0017}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.716	$\Omega_m h^2$	0.14174	$0.1411^{+0.0047}_{-0.0046}$			

Best-fit $\chi_{\text{eff}}^2 = 10233.76$; R-1 = 0.01103

χ_{eff}^2 : CMB - lowLike: 2014.43 lowl: -9.23 CamSpec: 7798.64 SN - SNLS: 429.19

14.6 base_nrun_r_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02236^{+0.00062}_{-0.00062}$	$r_{143 \times 217}^{\text{CIB}}$	0.364	$0.49^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.09614	$0.0964^{+0.0013}_{-0.0012}$
$\Omega_c h^2$	0.1198	$0.1192^{+0.0052}_{-0.0050}$	γ^{CIB}	0.530	$0.53^{+0.23}_{-0.26}$	Y_P	0.247756	$0.24783^{+0.00026}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04133	$1.0415^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8397	$1.841^{+0.028}_{-0.027}$
τ	0.0940	$0.101^{+0.032}_{-0.031}$	c_{217}	0.99633	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.804	$13.777^{+0.098}_{-0.099}$
n_s	0.9579	$0.960^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.26	$1090.0^{+1.1}_{-1.1}$
$dn_s/d \ln k$	-0.0103	$-0.021^{+0.021}_{-0.023}$	A^{kSZ}	7.52	—	r_*	144.61	$144.7^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.100	$3.115^{+0.067}_{-0.059}$	β_1^1	0.68	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04148	$1.0416^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.254	Ω_Λ	0.6859	$0.691^{+0.030}_{-0.032}$	z_{drag}	1059.55	$1059.9^{+1.3}_{-1.3}$
A_{100}^{PS}	138	184^{+100}_{-100}	Ω_m	0.3141	$0.309^{+0.032}_{-0.030}$	r_{drag}	147.34	$147.3^{+1.1}_{-1.2}$
A_{143}^{PS}	45	56^{+30}_{-30}	σ_8	0.8300	$0.832^{+0.028}_{-0.027}$	k_D	0.14035	$0.1405^{+0.0013}_{-0.0013}$
A_{217}^{PS}	108.1	103^{+40}_{-40}	z_{re}	11.44	$11.9^{+2.5}_{-2.4}$	$100\theta_D$	0.16121	$0.16101^{+0.00075}_{-0.00073}$
A_{143}^{CIB}	3.67	—	H_0	67.39	$67.9^{+2.3}_{-2.3}$	z_{eq}	3394	3382^{+120}_{-110}
A_{217}^{CIB}	27	32^{+20}_{-20}	$r_{0.002}$	0.000	< 0.295	$100\theta_{\text{eq}}$	0.8146	$0.818^{+0.022}_{-0.022}$
A_{143}^{tSZ}	7.93	—	$10^9 A_s$	2.220	$2.25^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_V(0.57)$	0.07148	$0.0718^{+0.0018}_{-0.0017}$
$r_{143 \times 217}^{\text{PS}}$	0.885	> 0.718	$\Omega_m h^2$	0.14267	$0.1422^{+0.0049}_{-0.0047}$			

Best-fit $\chi_{\text{eff}}^2 = 9934.76$; R-1 = 0.00974

χ_{eff}^2 : CMB - lowLike: 2014.44 lowl: -8.95 CamSpec: 7798.00 SN - Union2.1: 130.53

14.7 base_nrun_r_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02238^{+0.00062}_{-0.00059}$	β_1^1	0.52	$0.6^{+1.1}_{-1.1}$	z_{re}	11.36	$12.1^{+2.6}_{-2.4}$
$\Omega_c h^2$	0.1204	$0.1198^{+0.0055}_{-0.0053}$	$A_{148}^{\text{PS, ACT}}$	10.51	$10.5^{+1.2}_{-1.1}$	H_0	67.24	$67.6^{+2.4}_{-2.4}$
$100\theta_{\text{MC}}$	1.04133	$1.0414^{+0.0012}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.7	77^{+9}_{-9}	$r_{0.002}$	0.000	< 0.263
τ	0.0932	$0.103^{+0.033}_{-0.031}$	$A_{95}^{\text{PS, SPT}}$	7.30	$7.56^{+2.9}_{-2.8}$	$10^9 A_s$	2.220	$2.27^{+0.15}_{-0.14}$
n_s	0.9546	$0.957^{+0.015}_{-0.015}$	$A_{150}^{\text{PS, SPT}}$	9.99	$10.0^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.1433	$0.1429^{+0.0052}_{-0.0050}$
$dn_s/d \ln k$	-0.0145	$-0.022^{+0.020}_{-0.021}$	$A_{220}^{\text{PS, SPT}}$	74.0	74^{+9}_{-9}	$\Omega_m h^3$	0.09634	$0.0966^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.120^{+0.066}_{-0.062}$	$r_{95 \times 150}^{\text{PS}}$	0.813	> 0.683	Y_P	0.247780	$0.24784^{+0.00026}_{-0.00025}$
$r_{0.05}$	0.000	< 0.230	$r_{95 \times 220}^{\text{PS}}$	0.588	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8430	$1.843^{+0.028}_{-0.028}$
A_{100}^{PS}	221	226^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9217	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.800	$13.780^{+0.098}_{-0.099}$
A_{143}^{PS}	78.4	78^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.44^{+0.36}_{-0.39}$	z_*	1090.23	$1090.0^{+1.1}_{-1.1}$
A_{217}^{PS}	64.4	64^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.847	$0.85^{+0.39}_{-0.39}$	r_*	144.43	$144.5^{+1.2}_{-1.2}$
A_{143}^{CIB}	3.10	$3.22^{+1.6}_{-1.5}$	y_{148}^{ACTs}	0.9893	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04147	$1.0416^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	49.7	49^{+10}_{-9}	y_{217}^{ACTs}	1.0018	$1.003^{+0.027}_{-0.026}$	z_{drag}	1059.70	$1060.0^{+1.3}_{-1.2}$
A_{143}^{tSZ}	3.28	< 4.80	y_{148}^{ACTe}	0.9854	$0.986^{+0.014}_{-0.014}$	r_{drag}	147.14	$147.1^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.823	$0.83^{+0.13}_{-0.13}$	y_{217}^{ACTe}	0.9603	$0.962^{+0.021}_{-0.020}$	k_D	0.14061	$0.1407^{+0.0014}_{-0.0014}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.852	y_{95}^{SPT}	0.9786	$0.980^{+0.040}_{-0.037}$	$100\theta_D$	0.16111	$0.16095^{+0.00071}_{-0.00071}$
γ^{CIB}	0.624	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9823	$0.984^{+0.019}_{-0.019}$	z_{eq}	3408	3398^{+120}_{-120}
c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	y_{220}^{SPT}	1.0172	$1.022^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8122	$0.815^{+0.023}_{-0.023}$
c_{217}	0.99738	$0.9974^{+0.0027}_{-0.0027}$	Ω_Λ	0.6832	$0.687^{+0.031}_{-0.035}$	$r_{\text{drag}}/D_V(0.57)$	0.07132	$0.0715^{+0.0019}_{-0.0018}$
$\xi^{\text{tSZ-CIB}}$	0.18	—	Ω_m	0.3168	$0.313^{+0.035}_{-0.031}$			
A^{kSZ}	4.39	$5.74^{+4.0}_{-4.2}$	σ_8	0.8298	$0.835^{+0.028}_{-0.027}$			

Best-fit $\chi_{\text{eff}}^2 = 10506.20$; R-1 = 0.00627

χ_{eff}^2 : CMB - lowLike: 2014.43 lowl: -9.34 CamSpec: 7808.09 highL: 692.80

14.8 base_nrun_r_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02248^{+0.00061}_{-0.00059}$	β_1^1	0.46	$0.5^{+1.0}_{-1.1}$	z_{re}	11.53	$11.7^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.11851	$0.1179^{+0.0043}_{-0.0045}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.7^{+1.2}_{-1.1}$	H_0	68.02	$68.4^{+2.1}_{-2.0}$
$100\theta_{\text{MC}}$	1.04148	$1.0416^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	$r_{0.002}$	0.000	< 0.274
τ	0.0959	$0.0995^{+0.030}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.71	$7.85^{+3.1}_{-2.9}$	$10^9 A_s$	2.220	$2.24^{+0.13}_{-0.12}$
n_s	0.9612	$0.962^{+0.013}_{-0.013}$	$A_{150}^{\text{PS, SPT}}$	9.96	$10.19^{+0.99}_{-0.97}$	$\Omega_m h^2$	0.14145	$0.1410^{+0.0041}_{-0.0042}$
$dn_s/d \ln k$	-0.0065	$-0.019^{+0.019}_{-0.021}$	$A_{220}^{\text{PS, SPT}}$	73.2	75^{+9}_{-9}	$\Omega_m h^3$	0.09621	$0.0965^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.108^{+0.056}_{-0.054}$	$r_{95 \times 150}^{\text{PS}}$	0.783	> 0.682	Y_P	0.247808	$0.24789^{+0.00026}_{-0.00025}$
$r_{0.05}$	0.000	< 0.239	$r_{95 \times 220}^{\text{PS}}$	0.531	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8322	$1.834^{+0.022}_{-0.022}$
A_{100}^{PS}	210	225^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9091	$0.934^{+0.047}_{-0.045}$	Age/Gyr	13.781	$13.756^{+0.092}_{-0.098}$
A_{143}^{PS}	74.1	77^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.37}_{-0.39}$	z_*	1089.98	$1089.70^{+0.99}_{-0.99}$
A_{217}^{PS}	60.8	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.842	$0.84^{+0.39}_{-0.38}$	r_*	144.86	$144.89^{+0.99}_{-0.98}$
A_{143}^{CIB}	3.10	$3.21^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9912	$0.991^{+0.014}_{-0.015}$	$100\theta_*$	1.04162	$1.0417^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	52.3	50^{+10}_{-10}	y_{217}^{ACTs}	1.0036	$1.005^{+0.026}_{-0.026}$	z_{drag}	1059.74	$1060.1^{+1.2}_{-1.2}$
A_{143}^{tSZ}	4.38	< 4.72	y_{148}^{ACTe}	0.9873	$0.987^{+0.014}_{-0.014}$	r_{drag}	147.56	$147.52^{+0.99}_{-0.99}$
$r_{143 \times 217}^{\text{PS}}$	0.822	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9619	$0.963^{+0.021}_{-0.020}$	k_D	0.14022	$0.1404^{+0.0011}_{-0.0012}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{95}^{SPT}	0.9839	$0.981^{+0.039}_{-0.036}$	$100\theta_D$	0.16110	$0.16090^{+0.00071}_{-0.00069}$
γ^{CIB}	0.658	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9850	$0.986^{+0.019}_{-0.019}$	z_{eq}	3365	3354^{+98}_{-99}
c_{100}	1.00060	$1.00059^{+0.00080}_{-0.00077}$	y_{220}^{SPT}	1.0181	$1.024^{+0.048}_{-0.047}$	$100\theta_{\text{eq}}$	0.8203	$0.823^{+0.020}_{-0.019}$
c_{217}	0.99736	$0.9973^{+0.0026}_{-0.0027}$	Ω_Λ	0.6942	$0.699^{+0.027}_{-0.027}$	$r_{\text{drag}}/D_V(0.57)$	0.07194	$0.0722^{+0.0016}_{-0.0016}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_m	0.3058	$0.301^{+0.027}_{-0.027}$			
A^{kSZ}	1.57	$5.03^{+3.6}_{-4.2}$	σ_8	0.8274	$0.825^{+0.020}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10515.88$; R-1 = 0.02293

χ_{eff}^2 : CMB - lowLike: 2014.47 lensing: 9.89 lowl: -8.47 CamSpec: 7808.57 highL: 691.31

14.9 base_nrun_r_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02229	$0.02244^{+0.00055}_{-0.00054}$	β_1^1	0.51	$0.5^{+1.1}_{-1.1}$	z_{re}	11.44	$12.2^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.11897	$0.1188^{+0.0035}_{-0.0034}$	$A_{148}^{\text{PS, ACT}}$	10.45	$10.5^{+1.2}_{-1.1}$	H_0	67.84	$68.0^{+1.5}_{-1.6}$
$100\theta_{\text{MC}}$	1.04146	$1.0416^{+0.0011}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	76.8	77^{+9}_{-9}	$r_{0.002}$	0.009	< 0.271
τ	0.0947	$0.105^{+0.032}_{-0.031}$	$A_{95}^{\text{PS, SPT}}$	7.40	$7.56^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.27^{+0.15}_{-0.14}$
n_s	0.9588	$0.959^{+0.011}_{-0.011}$	$A_{150}^{\text{PS, SPT}}$	9.96	$10.0^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14191	$0.1419^{+0.0034}_{-0.0033}$
$dn_s/d \ln k$	-0.0116	$-0.022^{+0.020}_{-0.022}$	$A_{220}^{\text{PS, SPT}}$	73.8	74^{+9}_{-9}	$\Omega_m h^3$	0.09627	$0.0966^{+0.0012}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.122^{+0.065}_{-0.063}$	$r_{95 \times 150}^{\text{PS}}$	0.800	> 0.682	Y_P	0.247807	$0.24787^{+0.00023}_{-0.00023}$
$r_{0.05}$	0.0096	< 0.235	$r_{95 \times 220}^{\text{PS}}$	0.568	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8358	$1.839^{+0.021}_{-0.021}$
A_{100}^{PS}	216	225^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9193	$0.937^{+0.047}_{-0.044}$	Age/Gyr	13.784	$13.766^{+0.078}_{-0.078}$
A_{143}^{PS}	76.0	78^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.44^{+0.36}_{-0.39}$	z_*	1090.03	$1089.84^{+0.82}_{-0.81}$
A_{217}^{PS}	62.6	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.39}_{-0.39}$	r_*	144.75	$144.67^{+0.87}_{-0.87}$
A_{143}^{CIB}	3.05	$3.22^{+1.6}_{-1.5}$	y_{148}^{ACTs}	0.9904	$0.990^{+0.014}_{-0.014}$	$100\theta_*$	1.04160	$1.0417^{+0.0011}_{-0.0011}$
A_{217}^{CIB}	50.3	49^{+10}_{-9}	y_{217}^{ACTs}	1.0028	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.74	$1060.1^{+1.2}_{-1.2}$
A_{143}^{tSZ}	3.54	< 4.82	y_{148}^{ACTe}	0.9865	$0.986^{+0.014}_{-0.014}$	r_{drag}	147.44	$147.31^{+0.94}_{-0.95}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.83^{+0.13}_{-0.13}$	y_{217}^{ACTe}	0.9613	$0.962^{+0.021}_{-0.020}$	k_D	0.14034	$0.1406^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{95}^{SPT}	0.9810	$0.980^{+0.040}_{-0.036}$	$100\theta_D$	0.16109	$0.16091^{+0.00070}_{-0.00069}$
γ^{CIB}	0.634	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9837	$0.985^{+0.019}_{-0.018}$	z_{eq}	3376	3376^{+80}_{-78}
c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00078}$	y_{220}^{SPT}	1.0174	$1.022^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8183	$0.819^{+0.015}_{-0.015}$
c_{217}	0.99742	$0.9974^{+0.0027}_{-0.0027}$	Ω_Λ	0.6916	$0.693^{+0.020}_{-0.021}$	$r_{\text{drag}}/D_V(0.57)$	0.07179	$0.0719^{+0.0012}_{-0.0012}$
$\xi^{\text{tSZ-CIB}}$	0.13	—	Ω_m	0.3084	$0.307^{+0.021}_{-0.020}$			
A^{kSZ}	3.86	$5.75^{+4.0}_{-4.2}$	σ_8	0.8264	$0.833^{+0.027}_{-0.025}$			

Best-fit $\chi_{\text{eff}}^2 = 10508.16$; R-1 = 0.00844

χ_{eff}^2 : BAO - DR7: 1.17 DR9: 0.27 6DF: 0.01 CMB - lowLike: 2014.33 lowl: -9.11 CamSpec: 7808.63 highL: 692.67

14.10 base_nrun_r_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02238	$0.02259^{+0.00059}_{-0.00058}$	β_1^1	0.47	$0.5^{+1.1}_{-1.1}$	z_{re}	11.52	$12.5^{+2.6}_{-2.5}$
$\Omega_c h^2$	0.11793	$0.1171^{+0.0048}_{-0.0047}$	$A_{148}^{\text{PS, ACT}}$	10.49	$10.5^{+1.2}_{-1.1}$	H_0	68.36	$68.9^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04168	$1.0418^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	$r_{0.002}$	0.002	< 0.310
τ	0.0963	$0.109^{+0.034}_{-0.033}$	$A_{95}^{\text{PS, SPT}}$	7.31	$7.60^{+3.0}_{-2.8}$	$10^9 A_s$	2.220	$2.28^{+0.16}_{-0.15}$
n_s	0.9609	$0.963^{+0.014}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	10.00	$10.0^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14095	$0.1404^{+0.0046}_{-0.0045}$
$dn_s/d \ln k$	-0.0115	$-0.024^{+0.021}_{-0.023}$	$A_{220}^{\text{PS, SPT}}$	73.9	74^{+9}_{-9}	$\Omega_m h^3$	0.09635	$0.0967^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.100	$3.127^{+0.070}_{-0.062}$	$r_{95 \times 150}^{\text{PS}}$	0.810	> 0.679	Y_P	0.247844	$0.24793^{+0.00025}_{-0.00025}$
$r_{0.05}$	0.002	< 0.261	$r_{95 \times 220}^{\text{PS}}$	0.584	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8312	$1.832^{+0.026}_{-0.027}$
A_{100}^{PS}	216	224^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9217	$0.937^{+0.047}_{-0.044}$	Age/Gyr	13.764	$13.734^{+0.093}_{-0.097}$
A_{143}^{PS}	75.4	77^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.434	$0.43^{+0.36}_{-0.39}$	z_*	1089.83	$1089.50^{+0.99}_{-1.0}$
A_{217}^{PS}	62.0	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.850	$0.84^{+0.39}_{-0.39}$	r_*	144.95	$145.0^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.09	$3.22^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9908	$0.991^{+0.014}_{-0.014}$	$100\theta_*$	1.04181	$1.0419^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	50.2	49^{+10}_{-9}	y_{217}^{ACTs}	1.0025	$1.004^{+0.026}_{-0.026}$	z_{drag}	1059.89	$1060.3^{+1.3}_{-1.2}$
A_{143}^{tSZ}	3.48	< 4.81	y_{148}^{ACTe}	0.9866	$0.987^{+0.014}_{-0.014}$	r_{drag}	147.62	$147.6^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.822	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9612	$0.962^{+0.021}_{-0.020}$	k_D	0.14021	$0.1404^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{95}^{SPT}	0.9816	$0.981^{+0.039}_{-0.037}$	$100\theta_D$	0.16104	$0.16080^{+0.00071}_{-0.00070}$
γ^{CIB}	0.633	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9845	$0.985^{+0.019}_{-0.018}$	z_{eq}	3353	3339^{+110}_{-110}
c_{100}	1.00060	$1.00059^{+0.00079}_{-0.00079}$	y_{220}^{SPT}	1.0182	$1.023^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8229	$0.826^{+0.021}_{-0.021}$
c_{217}	0.99742	$0.9974^{+0.0027}_{-0.0027}$	Ω_Λ	0.6984	$0.704^{+0.027}_{-0.029}$	$r_{\text{drag}}/D_V(0.57)$	0.07218	$0.0725^{+0.0017}_{-0.0017}$
$\xi^{\text{tSZ-CIB}}$	0.16	—	Ω_m	0.3016	$0.296^{+0.029}_{-0.027}$			
A^{kSZ}	4.11	$5.72^{+4.1}_{-4.2}$	σ_8	0.8234	$0.829^{+0.029}_{-0.027}$			

Best-fit $\chi_{\text{eff}}^2 = 10512.54$; R-1 = 0.01374

χ_{eff}^2 : CMB - lowLike: 2014.37 lowl: -9.31 CamSpec: 7809.65 highL: 692.49 Hubble - HST: 5.13

14.11 base_nrun_r_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02231	$0.02250^{+0.00061}_{-0.00059}$	β_1^1	0.48	$0.5^{+1.1}_{-1.1}$	z_{re}	11.52	$12.3^{+2.6}_{-2.4}$
$\Omega_c h^2$	0.11856	$0.1180^{+0.0050}_{-0.0049}$	$A_{148}^{\text{PS, ACT}}$	10.47	$10.5^{+1.2}_{-1.1}$	H_0	68.02	$68.4^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04155	$1.0417^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.8	77^{+9}_{-9}	$r_{0.002}$	0.011	< 0.292
τ	0.0958	$0.107^{+0.034}_{-0.032}$	$A_{95}^{\text{PS, SPT}}$	7.40	$7.58^{+2.9}_{-2.8}$	$10^9 A_s$	2.221	$2.27^{+0.16}_{-0.15}$
n_s	0.9597	$0.961^{+0.014}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	9.98	$10.0^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14151	$0.1412^{+0.0048}_{-0.0046}$
$dn_s/d \ln k$	-0.0113	$-0.023^{+0.020}_{-0.022}$	$A_{220}^{\text{PS, SPT}}$	73.9	74^{+9}_{-9}	$\Omega_m h^3$	0.09626	$0.0966^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.100	$3.124^{+0.068}_{-0.065}$	$r_{95 \times 150}^{\text{PS}}$	0.802	> 0.680	Y_P	0.247813	$0.24789^{+0.00025}_{-0.00025}$
$r_{0.05}$	0.012	< 0.248	$r_{95 \times 220}^{\text{PS}}$	0.571	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8335	$1.835^{+0.026}_{-0.026}$
A_{100}^{PS}	216	224^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9200	$0.937^{+0.047}_{-0.044}$	Age/Gyr	13.779	$13.752^{+0.094}_{-0.097}$
A_{143}^{PS}	76.1	78^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.44^{+0.36}_{-0.39}$	z_*	1089.97	$1089.7^{+1.0}_{-1.0}$
A_{217}^{PS}	62.5	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.39}_{-0.39}$	r_*	144.84	$144.8^{+1.2}_{-1.1}$
A_{143}^{CIB}	3.05	$3.22^{+1.6}_{-1.5}$	y_{148}^{ACTs}	0.9904	$0.990^{+0.014}_{-0.014}$	$100\theta_*$	1.04167	$1.0418^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	50.2	49^{+10}_{-9}	y_{217}^{ACTs}	1.0029	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.78	$1060.2^{+1.3}_{-1.2}$
A_{143}^{tSZ}	3.46	< 4.81	y_{148}^{ACTe}	0.9865	$0.986^{+0.014}_{-0.014}$	r_{drag}	147.53	$147.5^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.819	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9615	$0.962^{+0.021}_{-0.020}$	k_D	0.14025	$0.1405^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{95}^{SPT}	0.9809	$0.980^{+0.039}_{-0.036}$	$100\theta_D$	0.16110	$0.16088^{+0.00071}_{-0.00070}$
γ^{CIB}	0.632	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9838	$0.985^{+0.019}_{-0.019}$	z_{eq}	3366	3358^{+110}_{-110}
c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00079}$	y_{220}^{SPT}	1.0177	$1.022^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8201	$0.822^{+0.022}_{-0.021}$
c_{217}	0.99738	$0.9974^{+0.0027}_{-0.0027}$	Ω_Λ	0.6942	$0.698^{+0.028}_{-0.031}$	$r_{\text{drag}}/D_V(0.57)$	0.07194	$0.0722^{+0.0018}_{-0.0017}$
$\xi^{\text{tSZ-CIB}}$	0.14	—	Ω_m	0.3058	$0.302^{+0.031}_{-0.028}$			
A^{kSZ}	4.01	$5.74^{+4.0}_{-4.2}$	σ_8	0.8256	$0.831^{+0.028}_{-0.027}$			

Best-fit $\chi_{\text{eff}}^2 = 10935.93$; R-1 = 0.00902

χ_{eff}^2 : CMB - lowLike: 2014.33 lowl: -9.10 CamSpec: 7808.89 highL: 692.61 SN - SNLS: 429.02

14.12 base_nrun_r_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02242^{+0.00061}_{-0.00058}$	β_1^1	0.48	$0.5^{+1.1}_{-1.1}$	z_{re}	11.49	$12.2^{+2.5}_{-2.4}$
$\Omega_c h^2$	0.1196	$0.1192^{+0.0051}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.31	$10.5^{+1.2}_{-1.1}$	H_0	67.54	$67.9^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04139	$1.0415^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	$r_{0.002}$	0.000	< 0.271
τ	0.0948	$0.104^{+0.033}_{-0.032}$	$A_{95}^{\text{PS, SPT}}$	7.43	$7.57^{+2.9}_{-2.8}$	$10^9 A_s$	2.221	$2.27^{+0.15}_{-0.14}$
n_s	0.9578	$0.958^{+0.014}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	9.80	$10.0^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14247	$0.1423^{+0.0048}_{-0.0048}$
$dn_s/d \ln k$	-0.0093	$-0.022^{+0.020}_{-0.022}$	$A_{220}^{\text{PS, SPT}}$	73.2	74^{+9}_{-9}	$\Omega_m h^3$	0.09622	$0.0966^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.100	$3.122^{+0.066}_{-0.063}$	$r_{95 \times 150}^{\text{PS}}$	0.789	> 0.682	Y_P	0.247777	$0.24786^{+0.00026}_{-0.00025}$
$r_{0.05}$	0.000	< 0.236	$r_{95 \times 220}^{\text{PS}}$	0.544	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8374	$1.840^{+0.027}_{-0.027}$
A_{100}^{PS}	213	225^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9134	$0.937^{+0.047}_{-0.044}$	Age/Gyr	13.796	$13.771^{+0.094}_{-0.096}$
A_{143}^{PS}	75.7	78^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.420	$0.44^{+0.36}_{-0.39}$	z_*	1090.17	$1089.9^{+1.0}_{-1.0}$
A_{217}^{PS}	62.6	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.857	$0.85^{+0.39}_{-0.39}$	r_*	144.64	$144.6^{+1.2}_{-1.2}$
A_{143}^{CIB}	3.10	$3.22^{+1.6}_{-1.5}$	y_{148}^{ACTs}	0.9901	$0.990^{+0.014}_{-0.014}$	$100\theta_*$	1.04154	$1.0416^{+0.0012}_{-0.0012}$
A_{217}^{CIB}	51.5	49^{+10}_{-9}	y_{217}^{ACTs}	1.0023	$1.003^{+0.027}_{-0.026}$	z_{drag}	1059.63	$1060.1^{+1.3}_{-1.2}$
A_{143}^{tSZ}	4.11	< 4.80	y_{148}^{ACTe}	0.9864	$0.986^{+0.014}_{-0.014}$	r_{drag}	147.35	$147.2^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.821	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9608	$0.962^{+0.021}_{-0.020}$	k_D	0.14038	$0.1406^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.852	y_{95}^{SPT}	0.9816	$0.980^{+0.039}_{-0.036}$	$100\theta_D$	0.16116	$0.16093^{+0.00070}_{-0.00070}$
γ^{CIB}	0.648	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9829	$0.984^{+0.019}_{-0.019}$	z_{eq}	3389	3384^{+120}_{-110}
c_{100}	1.00061	$1.00058^{+0.00079}_{-0.00079}$	y_{220}^{SPT}	1.0164	$1.022^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8156	$0.817^{+0.022}_{-0.021}$
c_{217}	0.99734	$0.9974^{+0.0027}_{-0.0027}$	Ω_Λ	0.6876	$0.691^{+0.030}_{-0.032}$	$r_{\text{drag}}/D_V(0.57)$	0.07157	$0.0718^{+0.0018}_{-0.0017}$
$\xi^{\text{tSZ-CIB}}$	0.04	—	Ω_m	0.3124	$0.309^{+0.032}_{-0.030}$			
A^{kSZ}	2.70	$5.75^{+4.0}_{-4.2}$	σ_8	0.8293	$0.833^{+0.028}_{-0.027}$			

Best-fit $\chi_{\text{eff}}^2 = 10637.13$; R-1 = 0.00742

χ_{eff}^2 : CMB - lowLike: 2014.47 lowl: -8.71 CamSpec: 7807.85 highL: 692.88 SN - Union2.1: 130.48

14.13 base_nrun_r_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02210	$0.0231^{+0.0012}_{-0.0012}$	$r_{143 \times 217}^{\text{CIB}}$	0.543	< 0.812	$\Omega_m h^3$	0.09605	$0.0974^{+0.0018}_{-0.0017}$
$\Omega_c h^2$	0.1203	$0.1149^{+0.0080}_{-0.0079}$	γ^{CIB}	0.547	$0.53^{+0.24}_{-0.26}$	Y_{P}	0.24772	$0.24814^{+0.00051}_{-0.00049}$
$100\theta_{\text{MC}}$	1.04126	$1.0422^{+0.0017}_{-0.0016}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8430	$1.828^{+0.033}_{-0.032}$
τ	0.093	$0.22^{+0.13}_{-0.13}$	c_{217}	0.99645	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.815	$13.66^{+0.19}_{-0.20}$
n_s	0.9617	$0.976^{+0.030}_{-0.026}$	$\xi^{\text{tSZ-CIB}}$	0.098	—	z_*	1090.39	$1088.7^{+1.9}_{-2.0}$
$dn_s/d \ln k$	-0.0033	$-0.041^{+0.034}_{-0.037}$	A^{kSZ}	0.6	—	r_*	144.55	$145.2^{+1.4}_{-1.5}$
$\ln(10^{10} A_s)$	3.100	$3.34^{+0.25}_{-0.25}$	β_1^1	0.72	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04141	$1.0423^{+0.0016}_{-0.0015}$
$r_{0.05}$	0.000	< 0.228	Ω_Λ	0.6829	$0.718^{+0.049}_{-0.049}$	z_{drag}	1059.40	$1061.3^{+2.3}_{-2.2}$
A_{100}^{PS}	160	172^{+100}_{-100}	Ω_m	0.3171	$0.282^{+0.049}_{-0.049}$	r_{drag}	147.31	$147.7^{+1.3}_{-1.3}$
A_{143}^{PS}	68.2	53^{+30}_{-30}	σ_8	0.834	$0.910^{+0.086}_{-0.088}$	k_{D}	0.14033	$0.1407^{+0.0013}_{-0.0013}$
A_{217}^{PS}	121.7	104^{+30}_{-40}	z_{re}	11.4	$19.4^{+7.6}_{-8.2}$	$100\theta_{\text{D}}$	0.16129	$0.1603^{+0.0011}_{-0.0012}$
A_{143}^{CIB}	0.0	—	H_0	67.16	$70.3^{+4.4}_{-4.1}$	z_{eq}	3402	3297^{+170}_{-160}
A_{217}^{CIB}	25	30^{+20}_{-10}	$r_{0.002}$	0.000	< 0.311	$100\theta_{\text{eq}}$	0.8128	$0.836^{+0.036}_{-0.034}$
A_{143}^{tSZ}	5.71	—	$10^9 A_s$	2.22	$2.84^{+0.74}_{-0.71}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07132	$0.0734^{+0.0032}_{-0.0029}$
$r_{143 \times 217}^{\text{PS}}$	0.892	> 0.725	$\Omega_m h^2$	0.1430	$0.1386^{+0.0071}_{-0.0069}$			

Best-fit $\chi_{\text{eff}}^2 = 7790.59$; R-1 = 0.00817

χ_{eff}^2 : CMB - lowl: -7.72 CamSpec: 7797.73

14.14 base_nrun_r_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02254^{+0.00086}_{-0.00086}$	$r_{143 \times 217}^{\text{CIB}}$	0.612	< 0.809	$\Omega_m h^3$	0.09608	$0.0964^{+0.0013}_{-0.0014}$
$\Omega_c h^2$	0.1181	$0.1166^{+0.0069}_{-0.0072}$	γ^{CIB}	0.552	$0.53^{+0.23}_{-0.25}$	Y_P	0.247794	$0.24791^{+0.00037}_{-0.00034}$
$100\theta_{\text{MC}}$	1.04151	$1.0418^{+0.0015}_{-0.0015}$	c_{100}	1.00058	$1.00059^{+0.00076}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8336	$1.828^{+0.032}_{-0.033}$
τ	0.096	$0.114^{+0.077}_{-0.074}$	c_{217}	0.99646	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.782	$13.74^{+0.15}_{-0.14}$
n_s	0.9672	$0.967^{+0.022}_{-0.022}$	$\xi^{\text{tSZ-CIB}}$	0.28	—	z_*	1089.99	$1089.5^{+1.5}_{-1.6}$
$dn_s/d \ln k$	-0.0027	$-0.018^{+0.021}_{-0.022}$	A^{kSZ}	1.02	—	r_*	145.00	$145.2^{+1.4}_{-1.4}$
$\ln(10^{10} A_s)$	3.100	$3.13^{+0.14}_{-0.14}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0419^{+0.0014}_{-0.0015}$
$r_{0.05}$	0.000	< 0.219	Ω_Λ	0.6963	$0.706^{+0.043}_{-0.045}$	z_{drag}	1059.63	$1060.2^{+1.6}_{-1.6}$
A_{100}^{PS}	156	178^{+100}_{-100}	Ω_m	0.3037	$0.294^{+0.045}_{-0.043}$	r_{drag}	147.71	$147.8^{+1.3}_{-1.3}$
A_{143}^{PS}	64.8	52^{+30}_{-30}	σ_8	0.8288	$0.832^{+0.040}_{-0.040}$	k_D	0.14003	$0.1401^{+0.0013}_{-0.0014}$
A_{217}^{PS}	119.5	101^{+30}_{-40}	z_{re}	11.5	$12.6^{+5.8}_{-6.1}$	$100\theta_D$	0.16117	$0.16089^{+0.00082}_{-0.00087}$
A_{143}^{CIB}	0.0	—	H_0	68.14	$69.0^{+3.6}_{-3.7}$	z_{eq}	3354	3325^{+150}_{-150}
A_{217}^{CIB}	25	31^{+20}_{-20}	$r_{0.002}$	0.000	< 0.255	$100\theta_{\text{eq}}$	0.8222	$0.829^{+0.032}_{-0.030}$
A_{143}^{tSZ}	5.35	—	$10^9 A_s$	2.220	$2.30^{+0.33}_{-0.32}$	$r_{\text{drag}}/D_V(0.57)$	0.07206	$0.0727^{+0.0027}_{-0.0027}$
$r_{143 \times 217}^{\text{PS}}$	0.920	> 0.698	$\Omega_m h^2$	0.1410	$0.1398^{+0.0063}_{-0.0064}$			

Best-fit $\chi_{\text{eff}}^2 = 7801.13$; R-1 = 0.04391

χ_{eff}^2 : CMB - lensing: 9.89 lowl: -8.30 CamSpec: 7798.99

14.15 base_nrun_r_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02273^{+0.00075}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.351	< 0.815	$\Omega_m h^3$	0.09617	$0.0970^{+0.0015}_{-0.0014}$
$\Omega_c h^2$	0.11896	$0.1176^{+0.0037}_{-0.0037}$	γ^{CIB}	0.529	$0.54^{+0.24}_{-0.26}$	Y_P	0.247778	$0.24799^{+0.00031}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04152	$1.0418^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8358	$1.838^{+0.021}_{-0.021}$
τ	0.095	$0.177^{+0.088}_{-0.093}$	c_{217}	0.99632	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.789	$13.725^{+0.098}_{-0.10}$
n_s	0.9598	$0.967^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.11	$1089.4^{+1.1}_{-1.1}$
$dn_s/d \ln k$	-0.0101	$-0.033^{+0.027}_{-0.027}$	A^{kSZ}	8.01	—	r_*	144.80	$144.77^{+0.86}_{-0.86}$
$\ln(10^{10} A_s)$	3.101	$3.26^{+0.17}_{-0.19}$	β_1^1	0.66	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04166	$1.0419^{+0.0011}_{-0.0011}$
$r_{0.05}$	0.000	< 0.215	Ω_Λ	0.6915	$0.702^{+0.022}_{-0.023}$	z_{drag}	1059.59	$1060.7^{+1.6}_{-1.5}$
A_{100}^{PS}	136	177^{+100}_{-100}	Ω_m	0.3085	$0.298^{+0.023}_{-0.022}$	r_{drag}	147.52	$147.32^{+0.91}_{-0.95}$
A_{143}^{PS}	44	54^{+30}_{-30}	σ_8	0.828	$0.889^{+0.070}_{-0.073}$	k_D	0.14020	$0.1408^{+0.0013}_{-0.0012}$
A_{217}^{PS}	107.4	104^{+30}_{-40}	z_{re}	11.5	$17.3^{+6.0}_{-6.4}$	$100\theta_D$	0.16119	$0.16060^{+0.00085}_{-0.00086}$
A_{143}^{CIB}	3.57	—	H_0	67.81	$68.8^{+1.9}_{-1.8}$	z_{eq}	3374	3353^{+83}_{-82}
A_{217}^{CIB}	27	30^{+20}_{-20}	$r_{0.002}$	0.000	< 0.265	$100\theta_{\text{eq}}$	0.8185	$0.824^{+0.016}_{-0.016}$
A_{143}^{tSZ}	7.88	—	$10^9 A_s$	2.222	$2.63^{+0.49}_{-0.46}$	$r_{\text{drag}}/D_V(0.57)$	0.07180	$0.0724^{+0.0014}_{-0.0013}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.727	$\Omega_m h^2$	0.14183	$0.1410^{+0.0035}_{-0.0034}$			

Best-fit $\chi_{\text{eff}}^2 = 7791.54$; R-1 = 0.01429

χ_{eff}^2 : BAO - DR7: 1.16 6DF: 0.01 DR9: 0.27 CMB - lowl: -9.07 CamSpec: 7798.43

14.16 base_nrun_r_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02235	$0.0235^{+0.0010}_{-0.00098}$	$r_{143 \times 217}^{\text{CIB}}$	0.310	< 0.810	$\Omega_m h^3$	0.09624	$0.0978^{+0.0017}_{-0.0016}$
$\Omega_c h^2$	0.1175	$0.1119^{+0.0061}_{-0.0059}$	γ^{CIB}	0.530	$0.53^{+0.24}_{-0.25}$	Y_P	0.247831	$0.24831^{+0.00041}_{-0.00041}$
$100\theta_{\text{MC}}$	1.04171	$1.0427^{+0.0014}_{-0.0014}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8313	$1.818^{+0.027}_{-0.026}$
τ	0.098	$0.26^{+0.10}_{-0.11}$	c_{217}	0.99636	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.765	$13.59^{+0.15}_{-0.16}$
n_s	0.9679	$0.986^{+0.024}_{-0.023}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.00	—	z_*	1089.83	$1088.0^{+1.6}_{-1.5}$
$dn_s/d \ln k$	-0.0045	$-0.050^{+0.032}_{-0.035}$	A^{kSZ}	0.0	—	r_*	145.08	$145.7^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.105	$3.42^{+0.20}_{-0.22}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04184	$1.0427^{+0.0014}_{-0.0014}$
$r_{0.05}$	0.000	< 0.241	Ω_Λ	0.7003	$0.736^{+0.034}_{-0.036}$	z_{drag}	1059.78	$1062.0^{+2.0}_{-1.9}$
A_{100}^{PS}	141	166^{+100}_{-100}	Ω_m	0.2997	$0.264^{+0.036}_{-0.034}$	r_{drag}	147.76	$148.0^{+1.1}_{-1.1}$
A_{143}^{PS}	57.3	51^{+30}_{-30}	σ_8	0.828	$0.933^{+0.076}_{-0.080}$	k_D	0.14004	$0.1406^{+0.0013}_{-0.0013}$
A_{217}^{PS}	120.1	104^{+30}_{-30}	z_{re}	11.7	22^{+6}_{-6}	$100\theta_D$	0.16110	$0.1600^{+0.0010}_{-0.00098}$
A_{143}^{CIB}	2.04	—	H_0	68.48	$71.9^{+3.3}_{-3.3}$	z_{eq}	3343	3236^{+130}_{-120}
A_{217}^{CIB}	26	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.354	$100\theta_{\text{eq}}$	0.8246	$0.849^{+0.028}_{-0.028}$
A_{143}^{tSZ}	7.97	—	$10^9 A_s$	2.23	$3.06^{+0.67}_{-0.62}$	$r_{\text{drag}}/D_V(0.57)$	0.07230	$0.0746^{+0.0024}_{-0.0024}$
$r_{143 \times 217}^{\text{PS}}$	0.891	> 0.724	$\Omega_m h^2$	0.1405	$0.1361^{+0.0055}_{-0.0052}$			

Best-fit $\chi_{\text{eff}}^2 = 7796.18$; R-1 = 0.00873

χ_{eff}^2 : CMB - lowl: -8.70 CamSpec: 7799.24 Hubble - HST: 4.91

14.17 base_nrun_r_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.0234^{+0.0012}_{-0.0011}$	$r_{143 \times 217}^{\text{CIB}}$	0.405	< 0.810	$\Omega_m h^3$	0.09612	$0.0977^{+0.0018}_{-0.0017}$
$\Omega_c h^2$	0.1190	$0.1125^{+0.0068}_{-0.0069}$	γ^{CIB}	0.526	$0.53^{+0.24}_{-0.25}$	Y_P	0.247779	$0.24827^{+0.00047}_{-0.00044}$
$100\theta_{\text{MC}}$	1.04139	$1.0426^{+0.0015}_{-0.0015}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8356	$1.819^{+0.029}_{-0.029}$
τ	0.095	$0.25^{+0.12}_{-0.12}$	c_{217}	0.99632	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.793	$13.61^{+0.18}_{-0.18}$
n_s	0.9597	$0.984^{+0.027}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.11	$1088.1^{+1.8}_{-1.8}$
$dn_s/d \ln k$	-0.0103	$-0.048^{+0.035}_{-0.037}$	A^{kSZ}	7.19	—	r_*	144.79	$145.6^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.101	$3.40^{+0.23}_{-0.24}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04154	$1.0426^{+0.0015}_{-0.0014}$
$r_{0.05}$	0.000	< 0.238	Ω_Λ	0.6910	$0.732^{+0.038}_{-0.041}$	z_{drag}	1059.63	$1061.8^{+2.3}_{-2.2}$
A_{100}^{PS}	136	167^{+100}_{-100}	Ω_m	0.3090	$0.268^{+0.041}_{-0.038}$	r_{drag}	147.51	$147.9^{+1.2}_{-1.2}$
A_{143}^{PS}	43	51^{+30}_{-30}	σ_8	0.828	$0.927^{+0.081}_{-0.084}$	k_D	0.14022	$0.1406^{+0.0013}_{-0.0013}$
A_{217}^{PS}	107.3	104^{+30}_{-30}	z_{re}	11.5	21^{+6}_{-7}	$100\theta_D$	0.16117	$0.1600^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	4.09	—	H_0	67.76	$71.6^{+3.9}_{-3.6}$	z_{eq}	3375	3248^{+140}_{-140}
A_{217}^{CIB}	27	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.343	$100\theta_{\text{eq}}$	0.8182	$0.847^{+0.032}_{-0.030}$
A_{143}^{tSZ}	8.30	—	$10^9 A_s$	2.22	$3.01^{+0.73}_{-0.71}$	$r_{\text{drag}}/D_V(0.57)$	0.07176	$0.0744^{+0.0028}_{-0.0026}$
$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.724	$\Omega_m h^2$	0.1419	$0.1366^{+0.0061}_{-0.0060}$			

Best-fit $\chi_{\text{eff}}^2 = 8219.37$; R-1 = 0.00798

χ_{eff}^2 : CMB - lowl: -9.09 CamSpec: 7798.39 SN - SNLS: 429.31

14.18 base_nrun_r_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.0231^{+0.0012}_{-0.0011}$	$r_{143 \times 217}^{\text{CIB}}$	0.420	< 0.811	$\Omega_m h^3$	0.09622	$0.0974^{+0.0018}_{-0.0016}$
$\Omega_c h^2$	0.1196	$0.1146^{+0.0071}_{-0.0072}$	γ^{CIB}	0.525	$0.53^{+0.24}_{-0.25}$	Y_{P}	0.247775	$0.24815^{+0.00048}_{-0.00043}$
$100\theta_{\text{MC}}$	1.04141	$1.0423^{+0.0016}_{-0.0015}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8387	$1.827^{+0.030}_{-0.030}$
τ	0.094	$0.22^{+0.12}_{-0.12}$	c_{217}	0.99633	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.796	$13.66^{+0.16}_{-0.19}$
n_s	0.9579	$0.977^{+0.027}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.18	$1088.7^{+1.8}_{-1.9}$
$dn_s/d \ln k$	-0.0121	$-0.041^{+0.034}_{-0.036}$	A^{kSZ}	8.37	—	r_*	144.64	$145.3^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.34^{+0.23}_{-0.24}$	β_1^1	0.68	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04154	$1.0423^{+0.0015}_{-0.0014}$
$r_{0.05}$	0.000	< 0.228	Ω_Λ	0.6877	$0.720^{+0.041}_{-0.044}$	z_{drag}	1059.63	$1061.3^{+2.2}_{-2.1}$
A_{100}^{PS}	134	171^{+100}_{-100}	Ω_m	0.3123	$0.280^{+0.044}_{-0.041}$	r_{drag}	147.36	$147.7^{+1.2}_{-1.2}$
A_{143}^{PS}	42	53^{+30}_{-30}	σ_8	0.829	$0.912^{+0.083}_{-0.085}$	k_{D}	0.14037	$0.1407^{+0.0013}_{-0.0013}$
A_{217}^{PS}	105.6	104^{+30}_{-40}	z_{re}	11.4	$19.6^{+7.1}_{-7.5}$	$100\theta_{\text{D}}$	0.16117	$0.1603^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	4.02	—	H_0	67.54	$70.4^{+4.0}_{-3.6}$	z_{eq}	3389	3291^{+150}_{-150}
A_{217}^{CIB}	27	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.313	$100\theta_{\text{eq}}$	0.8157	$0.837^{+0.033}_{-0.031}$
A_{143}^{tSZ}	8.50	—	$10^9 A_s$	2.22	$2.85^{+0.70}_{-0.67}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07157	$0.0735^{+0.0029}_{-0.0026}$
$r_{143 \times 217}^{\text{PS}}$	0.885	> 0.726	$\Omega_m h^2$	0.1425	$0.1384^{+0.0063}_{-0.0062}$			

Best-fit $\chi_{\text{eff}}^2 = 7920.31$; R-1 = 0.00833

χ_{eff}^2 : CMB - lowl: -9.25 CamSpec: 7798.31 SN - Union2.1: 130.48

14.19 base_nrun_r_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02257	$0.0229^{+0.0016}_{-0.0016}$	σ_8	0.810	$0.802^{+0.058}_{-0.057}$	r_*	145.64	$145.9^{+3.1}_{-3.1}$
$\Omega_c h^2$	0.1147	$0.113^{+0.014}_{-0.014}$	z_{re}	10.62	$11.1^{+2.6}_{-2.4}$	$100\theta_*$	1.04038	$1.0414^{+0.0048}_{-0.0047}$
$100\theta_{\text{MC}}$	1.04026	$1.0413^{+0.0049}_{-0.0048}$	H_0	69.2	$70.7^{+7.5}_{-7.2}$	z_{drag}	1060.09	$1060.8^{+3.1}_{-2.9}$
τ	0.0874	$0.095^{+0.031}_{-0.030}$	$r_{0.002}$	0.052	< 0.518	r_{drag}	148.27	$148.4^{+2.9}_{-3.0}$
n_s	0.968	< 1.03	$10^9 A_s$	2.209	$2.23^{+0.17}_{-0.16}$	k_D	0.13968	$0.1397^{+0.0029}_{-0.0029}$
$dn_s/d \ln k$	-0.009	$-0.024^{+0.054}_{-0.052}$	$\Omega_m h^2$	0.1380	$0.136^{+0.013}_{-0.013}$	$100\theta_D$	0.16066	$0.1605^{+0.0013}_{-0.0013}$
$\ln(10^{10} A_s)$	3.095	$3.105^{+0.074}_{-0.071}$	$\Omega_m h^3$	0.09546	$0.0962^{+0.0038}_{-0.0037}$	z_{eq}	3281	3243^{+320}_{-310}
$r_{0.05}$	0.054	< 0.382	Y_P	0.24793	$0.24807^{+0.00067}_{-0.00065}$	$100\theta_{\text{eq}}$	0.836	$0.846^{+0.069}_{-0.067}$
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.855	$1.845^{+0.079}_{-0.072}$	$r_{\text{drag}}/D_V(0.57)$	0.0729	$0.0740^{+0.0058}_{-0.0055}$
Ω_Λ	0.712	$0.724^{+0.081}_{-0.085}$	Age/Gyr	13.772	$13.69^{+0.32}_{-0.34}$			
Ω_m	0.288	$0.276^{+0.085}_{-0.081}$	z_*	1089.31	$1088.7^{+2.9}_{-2.9}$			

Best-fit $\chi^2_{\text{eff}} = 7557.39$; R-1 = 0.01019
 χ^2_{eff} : CMB - WMAP: 7557.39

14.20 base_nrun_r_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02249	$0.02250^{+0.00092}_{-0.00095}$	σ_8	0.8193	$0.816^{+0.038}_{-0.036}$	r_*	145.25	$145.1^{+1.6}_{-1.6}$
$\Omega_c h^2$	0.1165	$0.1170^{+0.0053}_{-0.0052}$	z_{re}	10.70	$11.3^{+2.6}_{-2.4}$	$100\theta_*$	1.04008	$1.0406^{+0.0041}_{-0.0042}$
$100\theta_{\text{MC}}$	1.03997	$1.0404^{+0.0041}_{-0.0043}$	H_0	68.39	$68.4^{+2.1}_{-2.0}$	z_{drag}	1060.05	$1060.1^{+2.2}_{-2.3}$
τ	0.0876	$0.094^{+0.031}_{-0.030}$	$r_{0.002}$	0.001	< 0.453	r_{drag}	147.89	$147.8^{+1.9}_{-1.8}$
n_s	0.9669	$0.949^{+0.039}_{-0.041}$	$10^9 A_s$	2.218	$2.25^{+0.16}_{-0.15}$	k_D	0.14001	$0.1402^{+0.0023}_{-0.0025}$
$dn_s/d \ln k$	-0.0029	$-0.034^{+0.044}_{-0.046}$	$\Omega_m h^2$	0.1396	$0.1401^{+0.0055}_{-0.0054}$	$100\theta_D$	0.16067	$0.1607^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.099	$3.114^{+0.068}_{-0.069}$	$\Omega_m h^3$	0.09548	$0.0958^{+0.0035}_{-0.0037}$	z_{eq}	3321	3333^{+130}_{-130}
$r_{0.05}$	0.001	< 0.345	Y_P	0.247890	$0.24789^{+0.00039}_{-0.00041}$	$100\theta_{\text{eq}}$	0.8278	$0.826^{+0.022}_{-0.022}$
A_{tSZ}	0.64	—	$10^9 A_s e^{-2\tau}$	1.8611	$1.863^{+0.045}_{-0.046}$	$r_{\text{drag}}/D_V(0.57)$	0.07223	$0.0722^{+0.0015}_{-0.0015}$
Ω_Λ	0.7015	$0.700^{+0.026}_{-0.026}$	Age/Gyr	13.798	$13.78^{+0.18}_{-0.17}$			
Ω_m	0.2985	$0.300^{+0.026}_{-0.026}$	z_*	1089.56	$1089.6^{+1.3}_{-1.2}$			

Best-fit $\chi^2_{\text{eff}} = 7559.16$; R-1 = 0.01711

χ^2_{eff} : BAO - 6DF: 0.06 DR7: 0.41 DR9: 0.79 CMB - WMAP: 7557.91

14.21 base_nrun_r_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02322	$0.0233^{+0.0012}_{-0.0011}$	σ_8	0.7976	$0.789^{+0.045}_{-0.043}$	r_*	146.67	$146.8^{+2.2}_{-2.2}$
$\Omega_c h^2$	0.1091	$0.1084^{+0.0090}_{-0.0082}$	z_{re}	11.02	$10.9^{+2.5}_{-2.3}$	$100\theta_*$	1.04188	$1.0422^{+0.0043}_{-0.0042}$
$100\theta_{\text{MC}}$	1.04182	$1.0421^{+0.0044}_{-0.0043}$	H_0	72.44	$72.9^{+4.2}_{-4.1}$	z_{drag}	1061.15	$1061.4^{+2.4}_{-2.4}$
τ	0.0962	$0.096^{+0.031}_{-0.030}$	$r_{0.002}$	0.116	< 0.555	r_{drag}	149.11	$149.2^{+2.2}_{-2.2}$
n_s	0.994	$0.988^{+0.051}_{-0.050}$	$10^9 A_s$	2.219	$2.21^{+0.16}_{-0.15}$	k_D	0.13924	$0.1392^{+0.0026}_{-0.0025}$
$dn_s/d \ln k$	-0.001	$-0.015^{+0.047}_{-0.054}$	$\Omega_m h^2$	0.1329	$0.1324^{+0.0086}_{-0.0079}$	$100\theta_D$	0.16027	$0.1602^{+0.0012}_{-0.0011}$
$\ln(10^{10} A_s)$	3.100	$3.096^{+0.070}_{-0.062}$	$\Omega_m h^3$	0.09628	$0.0965^{+0.0037}_{-0.0036}$	z_{eq}	3161	3149^{+200}_{-190}
$r_{0.05}$	0.113	< 0.401	Y_P	0.248195	$0.24824^{+0.00046}_{-0.00047}$	$100\theta_{\text{eq}}$	0.8627	$0.866^{+0.042}_{-0.041}$
A_{tSZ}	0.36	—	$10^9 A_s e^{-2\tau}$	1.830	$1.826^{+0.057}_{-0.052}$	$r_{\text{drag}}/D_V(0.57)$	0.07529	$0.0757^{+0.0033}_{-0.0032}$
Ω_Λ	0.7467	$0.750^{+0.042}_{-0.044}$	Age/Gyr	13.630	$13.60^{+0.22}_{-0.22}$			
Ω_m	0.2533	$0.250^{+0.044}_{-0.042}$	z_*	1088.04	$1087.9^{+1.8}_{-1.7}$			

Best-fit $\chi^2_{\text{eff}} = 7558.48$; R-1 = 0.01796

χ^2_{eff} : CMB - WMAP: 7558.11 Hubble - HST: 0.37

14.22 base_nrun_r_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02326	$0.0233^{+0.0015}_{-0.0013}$	σ_8	0.7970	$0.788^{+0.048}_{-0.048}$	r_*	146.66	$146.8^{+2.4}_{-2.4}$
$\Omega_c h^2$	0.1090	$0.108^{+0.011}_{-0.010}$	z_{re}	10.90	$10.9^{+2.5}_{-2.3}$	$100\theta_*$	1.04188	$1.0421^{+0.0046}_{-0.0046}$
$100\theta_{\text{MC}}$	1.04183	$1.0420^{+0.0047}_{-0.0047}$	H_0	72.5	$72.9^{+5.8}_{-5.7}$	z_{drag}	1061.27	$1061.3^{+2.9}_{-2.7}$
τ	0.0949	$0.096^{+0.031}_{-0.030}$	$r_{0.002}$	0.144	< 0.559	r_{drag}	149.08	$149.2^{+2.4}_{-2.4}$
n_s	0.996	$0.988^{+0.063}_{-0.059}$	$10^9 A_s$	2.216	$2.21^{+0.16}_{-0.15}$	k_D	0.13930	$0.1392^{+0.0026}_{-0.0026}$
$dn_s/d \ln k$	-0.002	$-0.014^{+0.051}_{-0.054}$	$\Omega_m h^2$	0.1329	$0.1323^{+0.0099}_{-0.0096}$	$100\theta_D$	0.16022	$0.1602^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.098	$3.096^{+0.070}_{-0.062}$	$\Omega_m h^3$	0.09635	$0.0964^{+0.0038}_{-0.0037}$	z_{eq}	3160	3146^{+240}_{-230}
$r_{0.05}$	0.137	< 0.404	Y_P	0.24821	$0.24823^{+0.00058}_{-0.00056}$	$100\theta_{\text{eq}}$	0.863	$0.867^{+0.054}_{-0.049}$
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.833	$1.825^{+0.060}_{-0.056}$	$r_{\text{drag}}/D_V(0.57)$	0.07533	$0.0757^{+0.0045}_{-0.0044}$
Ω_Λ	0.747	$0.750^{+0.052}_{-0.058}$	Age/Gyr	13.625	$13.61^{+0.27}_{-0.29}$			
Ω_m	0.253	$0.250^{+0.058}_{-0.052}$	z_*	1087.98	$1087.9^{+2.2}_{-2.3}$			

Best-fit $\chi^2_{\text{eff}} = 7983.78$; R-1 = 0.01498

χ^2_{eff} : CMB - WMAP: 7558.00 SN - SNLS: 425.78

14.23 base_nrun_r_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02274	$0.0229^{+0.0014}_{-0.0014}$	σ_8	0.8098	$0.802^{+0.049}_{-0.049}$	r_*	145.91	$145.9^{+2.5}_{-2.5}$
$\Omega_c h^2$	0.1132	$0.113^{+0.011}_{-0.011}$	z_{re}	10.99	$11.1^{+2.6}_{-2.4}$	$100\theta_*$	1.04057	$1.0414^{+0.0046}_{-0.0046}$
$100\theta_{\text{MC}}$	1.04047	$1.0413^{+0.0047}_{-0.0046}$	H_0	70.0	$70.6^{+5.9}_{-5.6}$	z_{drag}	1060.39	$1060.7^{+2.7}_{-2.6}$
τ	0.0928	$0.095^{+0.031}_{-0.030}$	$r_{0.002}$	0.040	< 0.512	r_{drag}	148.48	$148.5^{+2.5}_{-2.5}$
n_s	0.975	$0.969^{+0.058}_{-0.063}$	$10^9 A_s$	2.221	$2.23^{+0.16}_{-0.15}$	k_D	0.13957	$0.1397^{+0.0027}_{-0.0026}$
$dn_s/d \ln k$	-0.003	$-0.024^{+0.049}_{-0.051}$	$\Omega_m h^2$	0.1366	$0.136^{+0.011}_{-0.010}$	$100\theta_D$	0.16053	$0.1605^{+0.0013}_{-0.0012}$
$\ln(10^{10} A_s)$	3.101	$3.105^{+0.071}_{-0.069}$	$\Omega_m h^3$	0.09559	$0.0961^{+0.0037}_{-0.0037}$	z_{eq}	3249	3241^{+250}_{-250}
$r_{0.05}$	0.042	< 0.377	Y_P	0.24800	$0.24806^{+0.00057}_{-0.00053}$	$100\theta_{\text{eq}}$	0.842	$0.846^{+0.054}_{-0.053}$
A_{tSZ}	0.79	—	$10^9 A_s e^{-2\tau}$	1.845	$1.844^{+0.065}_{-0.062}$	$r_{\text{drag}}/D_V(0.57)$	0.07344	$0.0739^{+0.0045}_{-0.0043}$
Ω_Λ	0.721	$0.725^{+0.060}_{-0.066}$	Age/Gyr	13.742	$13.70^{+0.27}_{-0.28}$			
Ω_m	0.279	$0.275^{+0.066}_{-0.059}$	z_*	1088.97	$1088.8^{+2.2}_{-2.3}$			

Best-fit $\chi^2_{\text{eff}} = 7687.60$; R-1 = 0.01063

χ^2_{eff} : CMB - WMAP: 7557.72 SN - Union2.1: 129.88

15 nrun+r+omegak

15.1 base_nrun_r_omegak_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02224	$0.02277^{+0.00093}_{-0.00088}$	$r_{143 \times 217}^{\text{PS}}$	0.921	> 0.728	$\Omega_m h^2$	0.1430	$0.1397^{+0.0059}_{-0.0060}$
$\Omega_c h^2$	0.1201	$0.1163^{+0.0065}_{-0.0067}$	$r_{143 \times 217}^{\text{CIB}}$	0.529	< 0.795	$\Omega_m h^3$	0.0900	$0.074^{+0.020}_{-0.019}$
$100\theta_{\text{MC}}$	1.04130	$1.0420^{+0.0014}_{-0.0014}$	γ^{CIB}	0.584	$0.53^{+0.23}_{-0.26}$	Y_{P}	0.247782	$0.24801^{+0.00039}_{-0.00037}$
τ	0.0921	$0.095^{+0.031}_{-0.028}$	\mathbf{c}_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8453	$1.831^{+0.030}_{-0.029}$
Ω_K	-0.010	$-0.058^{+0.068}_{-0.080}$	\mathbf{c}_{217}	0.99647	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	14.25	$15.6^{+1.9}_{-1.8}$
n_s	0.9615	$0.970^{+0.021}_{-0.020}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.20	$1089.2^{+1.5}_{-1.6}$
$dn_s/d \ln k$	-0.0097	$-0.023^{+0.026}_{-0.028}$	A^{kSZ}	1.09	—	r_*	144.50	$145.1^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.098^{+0.063}_{-0.060}$	β_1^1	0.80	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04145	$1.0420^{+0.0014}_{-0.0014}$
$r_{0.05}$	0.023	< 0.422	Ω_Λ	0.650	$0.54^{+0.17}_{-0.19}$	z_{drag}	1059.70	$1060.7^{+1.8}_{-1.7}$
A_{100}^{PS}	161	167^{+100}_{-100}	Ω_m	0.361	$0.52^{+0.27}_{-0.24}$	r_{drag}	147.21	$147.6^{+1.2}_{-1.3}$
A_{143}^{PS}	67.2	51^{+30}_{-30}	σ_8	0.826	$0.786^{+0.060}_{-0.064}$	k_{D}	0.14054	$0.1405^{+0.0013}_{-0.0013}$
A_{217}^{PS}	118.5	105^{+30}_{-30}	z_{re}	11.23	$11.1^{+2.5}_{-2.4}$	$100\theta_{\text{D}}$	0.16111	$0.16062^{+0.00088}_{-0.00094}$
A_{143}^{CIB}	0.0	—	H_0	63.0	53^{+10}_{-10}	z_{eq}	3401	3323^{+140}_{-140}
A_{217}^{CIB}	26	29^{+20}_{-10}	$r_{0.002}$	0.021	< 0.582	$100\theta_{\text{eq}}$	0.8135	$0.830^{+0.031}_{-0.028}$
A_{143}^{tSZ}	5.78	—	$10^9 A_s$	2.219	$2.22^{+0.14}_{-0.13}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.0681	$0.0607^{+0.010}_{-0.0093}$

Best-fit $\chi_{\text{eff}}^2 = 9803.10$; R-1 = 0.00718

χ_{eff}^2 : CMB - lowLike: 2014.88 lowl: -9.27 CamSpec: 7797.16

15.2 base_nrun_r_omegak_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02234	$0.02292^{+0.00092}_{-0.00081}$	A^{kSZ}	2.02	$4.55^{+3.6}_{-4.5}$	σ_8	0.821	$0.777^{+0.060}_{-0.064}$
$\Omega_c h^2$	0.1193	$0.1156^{+0.0063}_{-0.0065}$	β_1^1	0.49	$0.4^{+1.1}_{-1.1}$	z_{re}	11.41	$11.1^{+2.6}_{-2.3}$
$100\theta_{\text{MC}}$	1.04145	$1.0421^{+0.0014}_{-0.0015}$	$A_{148}^{\text{PS, ACT}}$	10.31	$10.7^{+1.2}_{-1.1}$	H_0	62.1	51^{+10}_{-10}
τ	0.0950	$0.096^{+0.032}_{-0.030}$	$A_{218}^{\text{PS, ACT}}$	76.4	77^{+9}_{-9}	$r_{0.002}$	0.037	< 0.672
Ω_K	-0.014	$-0.070^{+0.072}_{-0.084}$	$A_{95}^{\text{PS, SPT}}$	7.53	$7.95^{+3.0}_{-2.9}$	$10^9 A_s$	2.221	$2.22^{+0.14}_{-0.13}$
n_s	0.9597	$0.969^{+0.020}_{-0.018}$	$A_{150}^{\text{PS, SPT}}$	9.86	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1423	$0.1391^{+0.0058}_{-0.0059}$
$dn_s/d \ln k$	-0.0104	$-0.028^{+0.028}_{-0.029}$	$A_{220}^{\text{PS, SPT}}$	73.3	75^{+9}_{-9}	$\Omega_m h^3$	0.0884	$0.071^{+0.019}_{-0.018}$
$\ln(10^{10} A_s)$	3.101	$3.098^{+0.064}_{-0.061}$	$r_{95 \times 150}^{\text{PS}}$	0.783	> 0.685	Y_P	0.247828	$0.24807^{+0.00038}_{-0.00034}$
$r_{0.05}$	0.040	< 0.463	$r_{95 \times 220}^{\text{PS}}$	0.532	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8368	$1.828^{+0.029}_{-0.028}$
A_{100}^{PS}	208	213^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9107	$0.934^{+0.048}_{-0.044}$	Age/Gyr	14.36	$15.9^{+1.8}_{-1.8}$
A_{143}^{PS}	73.4	72^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.410	$0.43^{+0.36}_{-0.39}$	z_*	1089.99	$1089.0^{+1.4}_{-1.5}$
A_{217}^{PS}	61.1	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.84^{+0.39}_{-0.39}$	r_*	144.62	$145.2^{+1.3}_{-1.3}$
A_{143}^{CIB}	3.08	$3.27^{+1.7}_{-1.6}$	y_{148}^{ACTs}	0.9910	$0.992^{+0.015}_{-0.014}$	$100\theta_*$	1.04158	$1.0422^{+0.0014}_{-0.0014}$
A_{217}^{CIB}	51.9	50^{+10}_{-10}	y_{217}^{ACTs}	1.0033	$1.007^{+0.027}_{-0.026}$	z_{drag}	1059.89	$1060.9^{+1.8}_{-1.6}$
A_{143}^{tSZ}	4.38	< 4.98	y_{148}^{ACTe}	0.9872	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.30	$147.7^{+1.3}_{-1.3}$
$r_{143 \times 217}^{\text{PS}}$	0.816	$0.82^{+0.14}_{-0.14}$	y_{217}^{ACTe}	0.9616	$0.965^{+0.021}_{-0.020}$	k_D	0.14052	$0.1405^{+0.0013}_{-0.0014}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.844	y_{95}^{SPT}	0.9837	$0.987^{+0.040}_{-0.037}$	$100\theta_D$	0.16101	$0.16048^{+0.00087}_{-0.00090}$
γ^{CIB}	0.655	$0.65^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9852	$0.991^{+0.020}_{-0.019}$	z_{eq}	3385	3309^{+140}_{-140}
c_{100}	1.00058	$1.00058^{+0.00079}_{-0.00078}$	y_{220}^{SPT}	1.0171	$1.027^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8168	$0.833^{+0.030}_{-0.028}$
c_{217}	0.99741	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.645	$0.51^{+0.18}_{-0.20}$	$r_{\text{drag}}/D_V(0.57)$	0.0674	$0.0591^{+0.0093}_{-0.0085}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.802	Ω_m	0.369	$0.56^{+0.28}_{-0.25}$			

Best-fit $\chi_{\text{eff}}^2 = 10503.92$; R-1 = 0.01702

χ_{eff}^2 : CMB - lowLike: 2015.02 lowl: -9.11 CamSpec: 7806.43 highL: 691.46

15.3 base_nrun_r_omegak_planck_lowl_lowLike_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02241^{+0.00069}_{-0.00065}$	$r_{143 \times 217}^{\text{PS}}$	0.888	> 0.717	$\Omega_m h^2$	0.1421	$0.1416^{+0.0055}_{-0.0053}$
$\Omega_c h^2$	0.1192	$0.1186^{+0.0058}_{-0.0056}$	$r_{143 \times 217}^{\text{CIB}}$	0.400	< 0.836	$\Omega_m h^3$	0.09649	$0.0962^{+0.0050}_{-0.0047}$
$100\theta_{\text{MC}}$	1.04142	$1.0416^{+0.0013}_{-0.0013}$	γ^{CIB}	0.528	$0.53^{+0.25}_{-0.26}$	Y_{P}	0.247765	$0.24786^{+0.00029}_{-0.00028}$
τ	0.0946	$0.102^{+0.032}_{-0.031}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8363	$1.838^{+0.029}_{-0.028}$
Ω_K	0.0005	$-0.0004^{+0.0068}_{-0.0071}$	c_{217}	0.99637	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.771	$13.79^{+0.28}_{-0.27}$
n_s	0.9633	$0.962^{+0.017}_{-0.017}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.17	$1089.8^{+1.2}_{-1.2}$
$dn_s/d \ln k$	-0.0033	$-0.021^{+0.022}_{-0.023}$	A^{kSZ}	0.0	—	r_*	144.76	$144.8^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.099	$3.116^{+0.064}_{-0.062}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04156	$1.0417^{+0.0013}_{-0.0013}$
$r_{0.05}$	0.000	< 0.262	Ω_Λ	0.6915	$0.693^{+0.021}_{-0.022}$	z_{drag}	1059.55	$1060.0^{+1.4}_{-1.3}$
A_{100}^{PS}	145	183^{+100}_{-100}	Ω_m	0.3079	$0.307^{+0.022}_{-0.020}$	r_{drag}	147.49	$147.4^{+1.2}_{-1.2}$
A_{143}^{PS}	55.3	55^{+30}_{-30}	σ_8	0.8311	$0.830^{+0.031}_{-0.029}$	k_{D}	0.14021	$0.1404^{+0.0013}_{-0.0014}$
A_{217}^{PS}	117.8	103^{+30}_{-40}	z_{re}	11.47	$12.0^{+2.5}_{-2.4}$	$100\theta_{\text{D}}$	0.16121	$0.16097^{+0.00077}_{-0.00075}$
A_{143}^{CIB}	3.53	—	H_0	67.92	$67.9^{+2.0}_{-2.1}$	z_{eq}	3379	3369^{+130}_{-130}
A_{217}^{CIB}	27	31^{+20}_{-20}	$r_{0.002}$	0.000	< 0.312	$100\theta_{\text{eq}}$	0.8174	$0.820^{+0.025}_{-0.024}$
A_{143}^{tSZ}	8.23	—	$10^9 A_s$	2.219	$2.26^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07189	$0.0718^{+0.0016}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 9806.48$; R-1 = 0.01376

χ_{eff}^2 : BAO - DR9: 0.36 DR7: 1.00 6DF: 0.02 CMB - lowLike: 2014.43 lowl: -7.92 CamSpec: 7797.84

15.4 base_nrun_r_omegak_planck_lowl_lowLike_highL_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02209	$0.02249^{+0.00068}_{-0.00063}$	A^{kSZ}	2.58	$5.64^{+4.0}_{-4.3}$	σ_8	0.8344	$0.831^{+0.031}_{-0.029}$
$\Omega_c h^2$	0.1201	$0.1184^{+0.0057}_{-0.0055}$	β_1^1	0.44	$0.5^{+1.1}_{-1.1}$	z_{re}	11.58	$12.3^{+2.5}_{-2.4}$
$100\theta_{\text{MC}}$	1.04120	$1.0416^{+0.0013}_{-0.0013}$	$A_{148}^{\text{PS, ACT}}$	10.32	$10.5^{+1.2}_{-1.1}$	H_0	68.24	$67.9^{+2.1}_{-2.1}$
τ	0.0951	$0.106^{+0.034}_{-0.032}$	$A_{218}^{\text{PS, ACT}}$	76.5	77^{+9}_{-9}	$r_{0.002}$	0.000	< 0.305
Ω_K	0.0022	$-0.0008^{+0.0066}_{-0.0069}$	$A_{95}^{\text{PS, SPT}}$	7.47	$7.59^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.27^{+0.16}_{-0.14}$
n_s	0.9584	$0.961^{+0.016}_{-0.016}$	$A_{150}^{\text{PS, SPT}}$	9.85	$10.0^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.1429	$0.1415^{+0.0054}_{-0.0052}$
$dn_s/d \ln k$	-0.0011	$-0.022^{+0.020}_{-0.023}$	$A_{220}^{\text{PS, SPT}}$	73.3	74^{+9}_{-9}	$\Omega_m h^3$	0.09749	$0.0961^{+0.0048}_{-0.0047}$
$\ln(10^{10} A_s)$	3.100	$3.122^{+0.068}_{-0.060}$	$r_{95 \times 150}^{\text{PS}}$	0.783	> 0.682	Y_P	0.247722	$0.24789^{+0.00029}_{-0.00027}$
$r_{0.05}$	0.000	< 0.258	$r_{95 \times 220}^{\text{PS}}$	0.540	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8349	$1.837^{+0.028}_{-0.027}$
A_{100}^{PS}	202	224^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9141	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.713	$13.80^{+0.27}_{-0.26}$
A_{143}^{PS}	72.3	77^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.44^{+0.36}_{-0.40}$	z_*	1090.38	$1089.7^{+1.2}_{-1.2}$
A_{217}^{PS}	60.8	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.850	$0.85^{+0.39}_{-0.39}$	r_*	144.60	$144.8^{+1.2}_{-1.3}$
A_{143}^{CIB}	3.06	$3.23^{+1.6}_{-1.6}$	y_{148}^{ACTs}	0.9915	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04136	$1.0417^{+0.0013}_{-0.0012}$
A_{217}^{CIB}	51.5	49^{+10}_{-9}	y_{217}^{ACTs}	1.0033	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.40	$1060.2^{+1.3}_{-1.3}$
A_{143}^{tSZ}	4.22	< 4.86	y_{148}^{ACTe}	0.9877	$0.987^{+0.015}_{-0.014}$	r_{drag}	147.36	$147.4^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.813	$0.83^{+0.14}_{-0.13}$	y_{217}^{ACTe}	0.9618	$0.962^{+0.021}_{-0.020}$	k_D	0.14027	$0.1405^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{95}^{SPT}	0.9840	$0.981^{+0.040}_{-0.037}$	$100\theta_D$	0.16130	$0.16088^{+0.00073}_{-0.00073}$
γ^{CIB}	0.652	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9847	$0.985^{+0.020}_{-0.019}$	z_{eq}	3398	3366^{+130}_{-120}
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{220}^{SPT}	1.0173	$1.022^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8135	$0.821^{+0.025}_{-0.024}$
c_{217}	0.99740	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.6911	$0.694^{+0.021}_{-0.022}$	$r_{\text{drag}}/D_V(0.57)$	0.07216	$0.0718^{+0.0016}_{-0.0015}$
$\xi^{\text{tSZ-CIB}}$	0.03	—	Ω_m	0.3067	$0.307^{+0.022}_{-0.021}$			

Best-fit $\chi_{\text{eff}}^2 = 10510.73$; R-1 = 0.01405

χ_{eff}^2 : BAO - DR7: 0.62 DR9: 0.69 6DF: 0.05 CMB - lowLike: 2014.51 lowl: -6.09 CamSpec: 7808.18 highL: 692.64

15.5 base_nrun_r_omegak_planck_lowl_lowLike_highL_BAO_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02251^{+0.00070}_{-0.00064}$	A^{kSZ}	3.35	$5.71^{+4.0}_{-4.2}$	σ_8	0.8310	$0.834^{+0.032}_{-0.031}$
$\Omega_c h^2$	0.1194	$0.1185^{+0.0057}_{-0.0056}$	β_1^1	0.45	$0.5^{+1.1}_{-1.1}$	z_{re}	11.53	$12.4^{+2.6}_{-2.4}$
$100\theta_{\text{MC}}$	1.04147	$1.0416^{+0.0013}_{-0.0013}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.5^{+1.2}_{-1.1}$	H_0	68.84	$68.8^{+2.0}_{-1.9}$
τ	0.0952	$0.107^{+0.035}_{-0.033}$	$A_{218}^{\text{PS, ACT}}$	76.7	77^{+9}_{-9}	$r_{0.002}$	0.000	< 0.300
Ω_K	0.0024	$0.0011^{+0.0065}_{-0.0064}$	$A_{95}^{\text{PS, SPT}}$	7.43	$7.54^{+2.9}_{-2.8}$	$10^9 A_s$	2.218	$2.28^{+0.16}_{-0.15}$
n_s	0.9590	$0.960^{+0.017}_{-0.016}$	$A_{150}^{\text{PS, SPT}}$	9.93	$10.0^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.1423	$0.1417^{+0.0054}_{-0.0052}$
$dn_s/d \ln k$	-0.0049	$-0.023^{+0.020}_{-0.023}$	$A_{220}^{\text{PS, SPT}}$	73.7	74^{+9}_{-9}	$\Omega_m h^3$	0.09793	$0.0975^{+0.0049}_{-0.0045}$
$\ln(10^{10} A_s)$	3.099	$3.126^{+0.070}_{-0.066}$	$r_{95 \times 150}^{\text{PS}}$	0.794	> 0.682	Y_P	0.247774	$0.24790^{+0.00030}_{-0.00027}$
$r_{0.05}$	0.000	< 0.253	$r_{95 \times 220}^{\text{PS}}$	0.557	$0.59^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8338	$1.838^{+0.029}_{-0.027}$
A_{100}^{PS}	211	226^{+100}_{-100}	$r_{150 \times 220}^{\text{PS}}$	0.9172	$0.938^{+0.047}_{-0.046}$	Age/Gyr	13.676	$13.70^{+0.25}_{-0.25}$
A_{143}^{PS}	74.3	77^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.44^{+0.36}_{-0.41}$	z_*	1090.16	$1089.7^{+1.2}_{-1.2}$
A_{217}^{PS}	61.5	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.40}_{-0.38}$	r_*	144.69	$144.7^{+1.2}_{-1.3}$
A_{143}^{CIB}	3.06	$3.23^{+1.6}_{-1.7}$	y_{148}^{ACTs}	0.9911	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04161	$1.0417^{+0.0013}_{-0.0012}$
A_{217}^{CIB}	50.8	49^{+10}_{-9}	y_{217}^{ACTs}	1.0032	$1.004^{+0.027}_{-0.026}$	z_{drag}	1059.63	$1060.2^{+1.4}_{-1.4}$
A_{143}^{tSZ}	3.80	< 4.85	y_{148}^{ACTe}	0.9873	$0.987^{+0.015}_{-0.014}$	r_{drag}	147.41	$147.3^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.816	$0.83^{+0.13}_{-0.13}$	y_{217}^{ACTe}	0.9617	$0.962^{+0.021}_{-0.020}$	k_D	0.14031	$0.1406^{+0.0013}_{-0.0013}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{95}^{SPT}	0.9825	$0.981^{+0.040}_{-0.037}$	$100\theta_D$	0.16118	$0.16084^{+0.00074}_{-0.00075}$
γ^{CIB}	0.641	$0.63^{+0.16}_{-0.16}$	y_{150}^{SPT}	0.9846	$0.985^{+0.020}_{-0.019}$	z_{eq}	3384	3370^{+130}_{-130}
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	y_{220}^{SPT}	1.0176	$1.022^{+0.047}_{-0.045}$	$100\theta_{\text{eq}}$	0.8166	$0.820^{+0.025}_{-0.024}$
c_{217}	0.99737	$0.9974^{+0.0026}_{-0.0026}$	Ω_Λ	0.6974	$0.700^{+0.021}_{-0.021}$	$r_{\text{drag}}/D_V(0.57)$	0.07257	$0.0725^{+0.0014}_{-0.0014}$
$\xi^{\text{tSZ-CIB}}$	0.09	—	Ω_m	0.3002	$0.299^{+0.020}_{-0.019}$			

Best-fit $\chi_{\text{eff}}^2 = 10514.19$; R-1 = 0.02736

χ_{eff}^2 : BAO - DR9: 1.39 DR7: 0.15 6DF: 0.12 CMB - lowLike: 2014.38 lowl: -7.52 CamSpec: 7808.71 highL: 692.54 Hubble - HST: 4.26

15.6 base_nrun_r_omegak_planck_lowl_lowLike_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02241^{+0.00069}_{-0.00065}$	A_{143}^{tSZ}	5.21	—	$\Omega_m h^2$	0.1424	$0.1414^{+0.0054}_{-0.0054}$
$\Omega_c h^2$	0.1196	$0.1183^{+0.0058}_{-0.0057}$	$r_{143 \times 217}^{\text{PS}}$	0.956	> 0.714	$\Omega_m h^3$	0.0956	$0.098^{+0.014}_{-0.014}$
$100\theta_{\text{MC}}$	1.04129	$1.0416^{+0.0013}_{-0.0013}$	$r_{143 \times 217}^{\text{CIB}}$	0.88	—	Y_{P}	0.247744	$0.24786^{+0.00029}_{-0.00028}$
τ	0.0942	$0.103^{+0.033}_{-0.031}$	γ^{CIB}	0.569	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8392	$1.837^{+0.030}_{-0.029}$
Ω_K	-0.0007	$0.002^{+0.018}_{-0.019}$	c_{100}	1.00058	$1.00058^{+0.00079}_{-0.00078}$	Age/Gyr	13.84	$13.65^{+0.86}_{-0.88}$
n_s	0.9645	$0.962^{+0.018}_{-0.017}$	c_{217}	0.99655	$0.9965^{+0.0027}_{-0.0027}$	z_*	1090.27	$1089.8^{+1.2}_{-1.2}$
$dn_s/d \ln k$	-0.0013	$-0.021^{+0.021}_{-0.023}$	$\xi^{\text{tSZ-CIB}}$	0.43	—	r_*	144.69	$144.8^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.117^{+0.066}_{-0.063}$	A^{kSZ}	0.6	—	$100\theta_*$	1.04144	$1.0417^{+0.0013}_{-0.0012}$
$r_{0.05}$	0.000	< 0.259	β_1^1	0.74	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.47	$1060.0^{+1.4}_{-1.3}$
α_{SNLS}	1.417	$1.43^{+0.22}_{-0.20}$	Ω_Λ	0.684	$0.703^{+0.052}_{-0.057}$	r_{drag}	147.43	$147.5^{+1.3}_{-1.3}$
β_{SNLS}	3.246	$3.26^{+0.22}_{-0.21}$	Ω_m	0.316	$0.295^{+0.073}_{-0.066}$	k_{D}	0.14023	$0.1404^{+0.0014}_{-0.0014}$
A_{100}^{PS}	158	183^{+100}_{-100}	σ_8	0.8330	$0.830^{+0.033}_{-0.033}$	$100\theta_{\text{D}}$	0.16125	$0.16098^{+0.00076}_{-0.00074}$
A_{143}^{PS}	65.7	55^{+30}_{-30}	z_{re}	11.45	$12.1^{+2.5}_{-2.4}$	z_{eq}	3387	3362^{+130}_{-130}
A_{217}^{PS}	120.2	103^{+40}_{-40}	H_0	67.1	70^{+9}_{-9}	$100\theta_{\text{eq}}$	0.8156	$0.821^{+0.026}_{-0.025}$
A_{143}^{CIB}	0.0	—	$r_{0.002}$	0.000	< 0.305	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.0713	$0.0731^{+0.0069}_{-0.0066}$
A_{217}^{CIB}	25	32^{+20}_{-20}	$10^9 A_s$	2.220	$2.26^{+0.15}_{-0.14}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.02$; R-1 = 0.01535

χ_{eff}^2 : CMB - lowLike: 2014.54 lowl: -7.63 CamSpec: 7797.99 SN - SNLS: 424.70

15.7 base_nrun_r_omegak_planck_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02245^{+0.00067}_{-0.00064}$	A_{143}^{tSZ}	6.15	—	$\Omega_m h^2$	0.1413	$0.1411^{+0.0052}_{-0.0053}$
$\Omega_c h^2$	0.1185	$0.1180^{+0.0056}_{-0.0056}$	$r_{143 \times 217}^{\text{PS}}$	0.900	> 0.719	$\Omega_m h^3$	0.09590	$0.0964^{+0.0050}_{-0.0048}$
$100\theta_{\text{MC}}$	1.04136	$1.0417^{+0.0012}_{-0.0013}$	$r_{143 \times 217}^{\text{CIB}}$	0.72	—	Y_{P}	0.247759	$0.24787^{+0.00028}_{-0.00028}$
τ	0.0957	$0.103^{+0.032}_{-0.030}$	γ^{CIB}	0.532	$0.54^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8343	$1.836^{+0.029}_{-0.029}$
Ω_K	0.0000	$-0.0002^{+0.0069}_{-0.0069}$	c_{100}	1.00061	$1.00057^{+0.00078}_{-0.00077}$	Age/Gyr	13.798	$13.77^{+0.27}_{-0.27}$
n_s	0.9649	$0.963^{+0.017}_{-0.017}$	c_{217}	0.99645	$0.9965^{+0.0026}_{-0.0025}$	z_*	1090.12	$1089.7^{+1.2}_{-1.2}$
$dn_s/d \ln k$	-0.0022	$-0.021^{+0.022}_{-0.023}$	$\xi^{\text{tSZ-CIB}}$	0.15	—	r_*	144.97	$144.9^{+1.3}_{-1.2}$
$\ln(10^{10} A_s)$	3.101	$3.116^{+0.066}_{-0.057}$	A^{kSZ}	1.69	—	$100\theta_*$	1.04151	$1.0418^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.269	β_1^1	0.71	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.47	$1060.1^{+1.3}_{-1.3}$
α_{SNLS}	1.419	$1.43^{+0.22}_{-0.20}$	Ω_Λ	0.6934	$0.698^{+0.019}_{-0.020}$	r_{drag}	147.70	$147.5^{+1.3}_{-1.2}$
β_{SNLS}	3.248	$3.25^{+0.22}_{-0.21}$	Ω_m	0.3066	$0.302^{+0.020}_{-0.019}$	k_{D}	0.13997	$0.1404^{+0.0014}_{-0.0014}$
A_{100}^{PS}	149	181^{+100}_{-100}	σ_8	0.8293	$0.828^{+0.030}_{-0.029}$	$100\theta_{\text{D}}$	0.16125	$0.16094^{+0.00077}_{-0.00075}$
A_{143}^{PS}	63.7	55^{+30}_{-30}	z_{re}	11.55	$12.0^{+2.4}_{-2.3}$	z_{eq}	3360	3355^{+130}_{-130}
A_{217}^{PS}	121.6	103^{+30}_{-40}	H_0	67.88	$68.3^{+2.0}_{-2.0}$	$100\theta_{\text{eq}}$	0.8206	$0.823^{+0.025}_{-0.024}$
A_{143}^{CIB}	0.0	—	$r_{0.002}$	0.000	< 0.320	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07190	$0.0721^{+0.0015}_{-0.0015}$
A_{217}^{CIB}	24	31^{+20}_{-20}	$10^9 A_s$	2.221	$2.26^{+0.15}_{-0.14}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.68$; R-1 =0.02524

χ_{eff}^2 : BAO - DR7: 0.96 6DF: 0.02 DR9: 0.37 CMB - lowLike: 2014.53 lowl: -7.84 CamSpec: 7798.11 SN - SNLS: 423.83

15.8 base_nrun_r_omegak_planck_lowl_lowLike_SNLS_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02231	$0.02235^{+0.00065}_{-0.00062}$	A^{tSZ}_{143}	5.54	—	$\Omega_m h^2$	0.1403	$0.1419^{+0.0053}_{-0.0052}$
$\Omega_c h^2$	0.1173	$0.1189^{+0.0056}_{-0.0054}$	$r^{\text{PS}}_{143 \times 217}$	0.915	> 0.713	$\Omega_m h^3$	0.0997	$0.1033^{+0.0076}_{-0.0074}$
$100\theta_{\text{MC}}$	1.04174	$1.0415^{+0.0013}_{-0.0012}$	$r^{\text{CIB}}_{143 \times 217}$	0.80	—	Y_{P}	0.247815	$0.24783^{+0.00027}_{-0.00027}$
τ	0.0971	$0.104^{+0.033}_{-0.029}$	γ^{CIB}	0.555	$0.53^{+0.24}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8284	$1.839^{+0.029}_{-0.029}$
Ω_K	0.0047	$0.0086^{+0.0084}_{-0.0093}$	c_{100}	1.00061	$1.00058^{+0.00080}_{-0.00078}$	Age/Gyr	13.526	$13.32^{+0.45}_{-0.42}$
n_s	0.9694	$0.960^{+0.017}_{-0.017}$	c_{217}	0.99641	$0.9965^{+0.0027}_{-0.0027}$	z_*	1089.86	$1090.0^{+1.1}_{-1.1}$
$dn_s/d \ln k$	-0.0011	$-0.022^{+0.020}_{-0.023}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	r_*	145.16	$144.7^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.120^{+0.067}_{-0.060}$	A^{kSZ}	1.14	—	$100\theta_*$	1.04187	$1.0417^{+0.0013}_{-0.0012}$
$r_{0.05}$	0.000	< 0.235	β_1^1	0.64	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.70	$1059.9^{+1.3}_{-1.3}$
α_{SNLS}	1.422	$1.43^{+0.22}_{-0.20}$	Ω_Λ	0.7175	$0.723^{+0.026}_{-0.029}$	r_{drag}	147.86	$147.4^{+1.3}_{-1.3}$
β_{SNLS}	3.248	$3.26^{+0.22}_{-0.21}$	Ω_m	0.2778	$0.268^{+0.034}_{-0.032}$	k_{D}	0.13991	$0.1404^{+0.0014}_{-0.0014}$
A^{PS}_{100}	154	187^{+100}_{-100}	σ_8	0.8289	$0.837^{+0.031}_{-0.031}$	$100\theta_{\text{D}}$	0.16116	$0.16103^{+0.00073}_{-0.00073}$
A^{PS}_{143}	64.5	56^{+30}_{-30}	z_{re}	11.62	$12.2^{+2.5}_{-2.4}$	z_{eq}	3337	3374^{+130}_{-120}
A^{PS}_{217}	118.8	102^{+40}_{-40}	H_0	71.06	$72.8^{+4.2}_{-4.3}$	$100\theta_{\text{eq}}$	0.8257	$0.819^{+0.024}_{-0.024}$
A^{CIB}_{143}	0.0	—	$r_{0.002}$	0.000	< 0.271	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07431	$0.0756^{+0.0033}_{-0.0033}$
A^{CIB}_{217}	25	32^{+20}_{-20}	$10^9 A_s$	2.220	$2.27^{+0.15}_{-0.14}$			

Best-fit $\chi^2_{\text{eff}} = 10231.52$; R-1 =0.02902

χ^2_{eff} : CMB - lowLike: 2014.22 lowl: -7.69 CamSpec: 7801.36 Hubble - HST: 1.34 SN - SNLS: 421.77

15.9 base_nrun_r_omegak_planck_lowl_lowLike_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.02249^{+0.00072}_{-0.00067}$	$r_{143 \times 217}^{\text{PS}}$	0.891	> 0.720	$\Omega_m h^2$	0.1429	$0.1411^{+0.0054}_{-0.0053}$
$\Omega_c h^2$	0.1201	$0.1179^{+0.0058}_{-0.0057}$	$r_{143 \times 217}^{\text{CIB}}$	0.273	< 0.832	$\Omega_m h^3$	0.0953	$0.091^{+0.014}_{-0.013}$
$100\theta_{\text{MC}}$	1.04124	$1.0417^{+0.0013}_{-0.0013}$	γ^{CIB}	0.534	$0.54^{+0.24}_{-0.25}$	Y_{P}	0.247742	$0.24789^{+0.00030}_{-0.00028}$
τ	0.0937	$0.101^{+0.032}_{-0.030}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8398	$1.836^{+0.029}_{-0.029}$
Ω_K	-0.0012	$-0.0096^{+0.023}_{-0.024}$	c_{217}	0.99634	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.87	$14.15^{+0.92}_{-0.93}$
n_s	0.9619	$0.964^{+0.018}_{-0.018}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.32	$1089.7^{+1.2}_{-1.2}$
$dn_s/d \ln k$	-0.0007	$-0.021^{+0.022}_{-0.023}$	A^{kSZ}	0.0	—	r_*	144.57	$144.9^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.112^{+0.064}_{-0.061}$	β_1^1	0.67	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04139	$1.0418^{+0.0013}_{-0.0013}$
$r_{0.05}$	0.000	< 0.293	Ω_Λ	0.680	$0.668^{+0.061}_{-0.068}$	z_{drag}	1059.47	$1060.1^{+1.4}_{-1.3}$
A_{100}^{PS}	146	179^{+100}_{-100}	Ω_m	0.321	$0.341^{+0.090}_{-0.079}$	r_{drag}	147.31	$147.5^{+1.3}_{-1.3}$
A_{143}^{PS}	58.2	54^{+30}_{-30}	σ_8	0.8334	$0.822^{+0.035}_{-0.035}$	k_{D}	0.14035	$0.1404^{+0.0014}_{-0.0014}$
A_{217}^{PS}	120.5	103^{+30}_{-40}	z_{re}	11.43	$11.8^{+2.5}_{-2.3}$	$100\theta_{\text{D}}$	0.16124	$0.16090^{+0.00078}_{-0.00079}$
A_{143}^{CIB}	2.32	—	H_0	66.7	65^{+9}_{-8}	z_{eq}	3399	3356^{+130}_{-130}
A_{217}^{CIB}	26	31^{+20}_{-20}	$r_{0.002}$	0.000	< 0.355	$100\theta_{\text{eq}}$	0.8135	$0.823^{+0.025}_{-0.025}$
A_{143}^{tSZ}	7.49	—	$10^9 A_s$	2.219	$2.25^{+0.14}_{-0.14}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.0709	$0.0693^{+0.0066}_{-0.0064}$

Best-fit $\chi_{\text{eff}}^2 = 9935.87$; R-1 = 0.01151

χ_{eff}^2 : CMB - lowLike: 2014.60 lowl: -7.00 CamSpec: 7796.82 SN - Union2.1: 130.76

15.10 base_nrun_r_omegak_planck_lowl_lowLike_Union2_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02241^{+0.00070}_{-0.00062}$	$r_{143 \times 217}^{\text{PS}}$	0.897	> 0.711	$\Omega_m h^2$	0.1419	$0.1416^{+0.0052}_{-0.0050}$
$\Omega_c h^2$	0.1191	$0.1185^{+0.0055}_{-0.0054}$	$r_{143 \times 217}^{\text{CIB}}$	0.21	—	$\Omega_m h^3$	0.09659	$0.0964^{+0.0047}_{-0.0048}$
$100\theta_{\text{MC}}$	1.04142	$1.0416^{+0.0013}_{-0.0013}$	γ^{CIB}	0.526	$0.54^{+0.24}_{-0.25}$	Y_{P}	0.247756	$0.24786^{+0.00029}_{-0.00027}$
τ	0.0942	$0.102^{+0.031}_{-0.029}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8363	$1.838^{+0.029}_{-0.028}$
Ω_K	0.0008	$-0.0002^{+0.0066}_{-0.0069}$	c_{217}	0.99643	$0.9965^{+0.0028}_{-0.0026}$	Age/Gyr	13.761	$13.78^{+0.27}_{-0.26}$
n_s	0.9653	$0.962^{+0.017}_{-0.017}$	$\xi^{\text{tSZ-CIB}}$	0.09	—	z_*	1090.19	$1089.8^{+1.1}_{-1.2}$
$dn_s/d \ln k$	-0.0011	$-0.021^{+0.021}_{-0.022}$	A^{kSZ}	0.9	—	r_*	144.80	$144.8^{+1.2}_{-1.3}$
$\ln(10^{10} A_s)$	3.099	$3.115^{+0.062}_{-0.059}$	β_1^1	0.72	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04157	$1.0417^{+0.0012}_{-0.0013}$
$r_{0.05}$	0.000	< 0.255	Ω_Λ	0.6928	$0.695^{+0.020}_{-0.021}$	z_{drag}	1059.47	$1060.0^{+1.4}_{-1.3}$
A_{100}^{PS}	143	184^{+100}_{-100}	Ω_m	0.3064	$0.306^{+0.021}_{-0.020}$	r_{drag}	147.54	$147.4^{+1.3}_{-1.3}$
A_{143}^{PS}	62.2	55^{+30}_{-30}	σ_8	0.8317	$0.830^{+0.030}_{-0.029}$	k_{D}	0.14014	$0.1404^{+0.0014}_{-0.0014}$
A_{217}^{PS}	123.0	102^{+30}_{-40}	z_{re}	11.44	$12.0^{+2.4}_{-2.2}$	$100\theta_{\text{D}}$	0.16125	$0.16097^{+0.00071}_{-0.00077}$
A_{143}^{CIB}	0.0	—	H_0	68.06	$68.1^{+2.1}_{-2.0}$	z_{eq}	3376	3367^{+120}_{-120}
A_{217}^{CIB}	24	32^{+20}_{-20}	$r_{0.002}$	0.000	< 0.300	$100\theta_{\text{eq}}$	0.8179	$0.820^{+0.024}_{-0.023}$
A_{143}^{tSZ}	6.74	—	$10^9 A_s$	2.217	$2.26^{+0.14}_{-0.13}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07201	$0.0719^{+0.0016}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 9937.28$; R-1 = 0.03101

χ_{eff}^2 : BAO - DR7: 0.79 6DF: 0.03 DR9: 0.50 CMB - lowLike: 2014.41 lowl: -7.56 CamSpec: 7798.05 SN - Union2.1: 130.32

15.11 base_nrun_r_omegak_planck_lowl_lowLike_Union2_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02236^{+0.00068}_{-0.00063}$	$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.713	$\Omega_m h^2$	0.1419	$0.1420^{+0.0051}_{-0.0052}$
$\Omega_c h^2$	0.1191	$0.1190^{+0.0054}_{-0.0055}$	$r_{143 \times 217}^{\text{CIB}}$	0.373	< 0.839	$\Omega_m h^3$	0.1015	$0.1020^{+0.0072}_{-0.0073}$
$100\theta_{\text{MC}}$	1.04150	$1.0415^{+0.0013}_{-0.0013}$	γ^{CIB}	0.528	$0.53^{+0.25}_{-0.25}$	Y_{P}	0.247770	$0.24784^{+0.00029}_{-0.00027}$
τ	0.0946	$0.104^{+0.033}_{-0.031}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8359	$1.840^{+0.027}_{-0.028}$
Ω_K	0.0071	$0.0070^{+0.0090}_{-0.0093}$	c_{217}	0.99639	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.431	$13.41^{+0.45}_{-0.41}$
n_s	0.9626	$0.960^{+0.017}_{-0.016}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.15	$1090.0^{+1.1}_{-1.2}$
$dn_s/d \ln k$	-0.0059	$-0.022^{+0.020}_{-0.022}$	A^{kSZ}	3.07	—	r_*	144.78	$144.7^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.099	$3.120^{+0.064}_{-0.065}$	β_1^1	0.70	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0417^{+0.0013}_{-0.0013}$
$r_{0.05}$	0.000	< 0.226	Ω_Λ	0.7156	$0.717^{+0.027}_{-0.030}$	z_{drag}	1059.59	$1059.9^{+1.3}_{-1.3}$
A_{100}^{PS}	142	189^{+100}_{-100}	Ω_m	0.2773	$0.276^{+0.036}_{-0.034}$	r_{drag}	147.50	$147.3^{+1.2}_{-1.2}$
A_{143}^{PS}	51.8	56^{+30}_{-30}	σ_8	0.8331	$0.836^{+0.030}_{-0.029}$	k_{D}	0.14020	$0.1405^{+0.0014}_{-0.0014}$
A_{217}^{PS}	114.4	102^{+30}_{-40}	z_{re}	11.49	$12.2^{+2.6}_{-2.4}$	$100\theta_{\text{D}}$	0.16121	$0.16101^{+0.00075}_{-0.00076}$
A_{143}^{CIB}	3.27	—	H_0	71.54	$71.8^{+4.2}_{-4.3}$	z_{eq}	3376	3379^{+120}_{-120}
A_{217}^{CIB}	27	33^{+20}_{-20}	$r_{0.002}$	0.000	< 0.263	$100\theta_{\text{eq}}$	0.8180	$0.818^{+0.024}_{-0.023}$
A_{143}^{tSZ}	8.05	—	$10^9 A_s$	2.218	$2.27^{+0.15}_{-0.15}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07466	$0.0748^{+0.0033}_{-0.0033}$

Best-fit $\chi_{\text{eff}}^2 = 9937.86$; R-1 = 0.03211

χ_{eff}^2 : CMB - lowLike: 2014.00 lowl: -7.89 CamSpec: 7800.21 Hubble - HST: 0.92 SN - Union2.1: 129.89

15.12 base_nrun_r_omegak_planck_lowl_lowLike_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02227	$0.02234^{+0.00066}_{-0.00064}$	$r_{143 \times 217}^{\text{PS}}$	0.915	> 0.710	$\Omega_m h^2$	0.1410	$0.1423^{+0.0054}_{-0.0052}$
$\Omega_c h^2$	0.1181	$0.1193^{+0.0058}_{-0.0055}$	$r_{143 \times 217}^{\text{CIB}}$	0.540	$0.51^{+0.39}_{-0.45}$	$\Omega_m h^3$	0.0987	$0.1022^{+0.0079}_{-0.0075}$
$100\theta_{\text{MC}}$	1.04158	$1.0415^{+0.0013}_{-0.0013}$	γ^{CIB}	0.530	$0.53^{+0.24}_{-0.26}$	Y_{P}	0.247797	$0.24783^{+0.00028}_{-0.00028}$
τ	0.0960	$0.103^{+0.032}_{-0.032}$	c_{100}	1.00060	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8330	$1.841^{+0.029}_{-0.029}$
Ω_K	0.0035	$0.0072^{+0.0090}_{-0.010}$	c_{217}	0.99643	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.604	$13.40^{+0.46}_{-0.45}$
n_s	0.9677	$0.959^{+0.017}_{-0.017}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	z_*	1089.98	$1090.0^{+1.2}_{-1.2}$
$dn_s/d \ln k$	-0.0023	$-0.022^{+0.020}_{-0.022}$	A^{kSZ}	0.6	—	r_*	145.00	$144.6^{+1.2}_{-1.3}$
$\ln(10^{10} A_s)$	3.101	$3.120^{+0.065}_{-0.063}$	β_1^1	0.72	$0.7^{+1.1}_{-1.1}$	$100\theta_*$	1.04173	$1.0416^{+0.0012}_{-0.0013}$
$r_{0.05}$	0.000	< 0.231	Ω_Λ	0.7088	$0.716^{+0.030}_{-0.033}$	z_{drag}	1059.63	$1059.9^{+1.3}_{-1.3}$
A_{100}^{PS}	150	188^{+100}_{-100}	Ω_m	0.2878	$0.277^{+0.038}_{-0.037}$	r_{drag}	147.71	$147.3^{+1.2}_{-1.2}$
A_{143}^{PS}	64.1	56^{+30}_{-30}	σ_8	0.8304	$0.837^{+0.032}_{-0.030}$	k_{D}	0.14004	$0.1405^{+0.0013}_{-0.0013}$
A_{217}^{PS}	123.7	102^{+30}_{-40}	z_{re}	11.55	$12.2^{+2.5}_{-2.4}$	$100\theta_{\text{D}}$	0.16117	$0.16103^{+0.00076}_{-0.00075}$
A_{143}^{CIB}	0.0	—	H_0	70.00	$71.8^{+4.6}_{-4.6}$	z_{eq}	3354	3384^{+130}_{-120}
A_{217}^{CIB}	23	32^{+20}_{-20}	$r_{0.002}$	0.000	< 0.267	$100\theta_{\text{eq}}$	0.8223	$0.817^{+0.024}_{-0.024}$
A_{143}^{tSZ}	6.21	—	$10^9 A_s$	2.221	$2.27^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07349	$0.0748^{+0.0035}_{-0.0035}$

Best-fit $\chi_{\text{eff}}^2 = 9809.54$; R-1 = 0.01544

χ_{eff}^2 : CMB - lowLike: 2014.26 lowl: -7.93 CamSpec: 7799.95 Hubble - HST: 2.53

15.13 base_nrun_r_omegak_planck_lowl_lowLike_HST_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02225	$0.02241^{+0.00067}_{-0.00070}$	$r_{143 \times 217}^{\text{PS}}$	0.933	> 0.714	$\Omega_m h^2$	0.1417	$0.1420^{+0.0053}_{-0.0052}$
$\Omega_c h^2$	0.1188	$0.1190^{+0.0057}_{-0.0055}$	$r_{143 \times 217}^{\text{CIB}}$	0.519	$0.49^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.09738	$0.0978^{+0.0049}_{-0.0046}$
$100\theta_{\text{MC}}$	1.04156	$1.0416^{+0.0013}_{-0.0013}$	γ^{CIB}	0.558	$0.53^{+0.24}_{-0.26}$	Y_{P}	0.247787	$0.24786^{+0.00028}_{-0.00030}$
τ	0.0951	$0.102^{+0.033}_{-0.029}$	c_{100}	1.00060	$1.00058^{+0.00075}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8359	$1.840^{+0.029}_{-0.028}$
Ω_K	0.0017	$0.0018^{+0.0068}_{-0.0065}$	c_{217}	0.99640	$0.9965^{+0.0028}_{-0.0027}$	Age/Gyr	13.705	$13.68^{+0.25}_{-0.26}$
n_s	0.9660	$0.961^{+0.017}_{-0.017}$	$\xi^{\text{tSZ-CIB}}$	0.22	—	z_*	1090.07	$1089.9^{+1.2}_{-1.2}$
$dn_s/d \ln k$	-0.0030	$-0.021^{+0.023}_{-0.022}$	A^{kSZ}	1.02	—	r_*	144.82	$144.7^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.100	$3.117^{+0.066}_{-0.058}$	β_1^1	0.71	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04170	$1.0417^{+0.0012}_{-0.0013}$
$r_{0.05}$	0.000	< 0.250	Ω_Λ	0.6983	$0.699^{+0.019}_{-0.020}$	z_{drag}	1059.63	$1060.0^{+1.4}_{-1.3}$
A_{100}^{PS}	146	185^{+100}_{-100}	Ω_m	0.3001	$0.299^{+0.020}_{-0.019}$	r_{drag}	147.54	$147.3^{+1.2}_{-1.2}$
A_{143}^{PS}	62.5	55^{+30}_{-30}	σ_8	0.8315	$0.833^{+0.031}_{-0.030}$	k_{D}	0.14020	$0.1406^{+0.0013}_{-0.0013}$
A_{217}^{PS}	121.3	103^{+30}_{-40}	z_{re}	11.50	$12.0^{+2.5}_{-2.4}$	$100\theta_{\text{D}}$	0.16117	$0.16095^{+0.00078}_{-0.00077}$
A_{143}^{CIB}	0.0	—	H_0	68.72	$68.9^{+1.9}_{-1.8}$	z_{eq}	3371	3378^{+130}_{-120}
A_{217}^{CIB}	24	32^{+20}_{-20}	$r_{0.002}$	0.000	< 0.291	$100\theta_{\text{eq}}$	0.8191	$0.818^{+0.025}_{-0.024}$
A_{143}^{tSZ}	6.53	—	$10^9 A_s$	2.221	$2.26^{+0.15}_{-0.14}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07249	$0.0725^{+0.0015}_{-0.0014}$

Best-fit $\chi_{\text{eff}}^2 = 9811.94$; R-1 = 0.03910

χ_{eff}^2 : BAO - DR9: 1.23 DR7: 0.21 6DF: 0.10 CMB - lowLike: 2014.36 lowl: -8.07 CamSpec: 7799.13 Hubble - HST: 4.47

16 omegak

16.1 base_omegak_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02231^{+0.00061}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.638	< 0.799	$\Omega_m h^3$	0.0898	$0.080^{+0.016}_{-0.015}$
$\Omega_c h^2$	0.1204	$0.1183^{+0.0053}_{-0.0052}$	γ^{CIB}	0.613	$0.53^{+0.24}_{-0.25}$	Y_P	0.247732	$0.24781^{+0.00026}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04126	$1.0416^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8421	$1.831^{+0.025}_{-0.024}$
τ	0.0919	$0.087^{+0.026}_{-0.024}$	c_{217}	0.99643	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	14.26	$15.1^{+1.3}_{-1.3}$
Ω_K	-0.0105	$-0.037^{+0.043}_{-0.049}$	$\xi^{\text{tSZ-CIB}}$	0.18	—	z_*	1090.38	$1089.9^{+1.1}_{-1.1}$
n_s	0.9621	$0.965^{+0.015}_{-0.015}$	A^{kSZ}	0.6	—	r_*	144.50	$144.9^{+1.2}_{-1.1}$
$\ln(10^{10} A_s)$	3.0972	$3.081^{+0.050}_{-0.047}$	β_1^1	0.71	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04141	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	150	160^{+100}_{-100}	Ω_Λ	0.646	$0.58^{+0.12}_{-0.13}$	z_{drag}	1059.47	$1059.8^{+1.2}_{-1.2}$
A_{143}^{PS}	63.1	51^{+30}_{-20}	Ω_m	0.364	$0.46^{+0.18}_{-0.17}$	r_{drag}	147.25	$147.6^{+1.1}_{-1.1}$
A_{217}^{PS}	115.6	107^{+30}_{-30}	σ_8	0.8284	$0.800^{+0.041}_{-0.043}$	k_D	0.14040	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.25	$10.6^{+2.2}_{-2.2}$	$100\theta_D$	0.16126	$0.16112^{+0.00070}_{-0.00068}$
A_{217}^{CIB}	27.4	27^{+20}_{-10}	H_0	62.7	56^{+10}_{-10}	z_{eq}	3406	3359^{+120}_{-120}
A_{143}^{tSZ}	6.26	—	$10^9 A_s$	2.214	$2.18^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8122	$0.822^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.948	> 0.739	$\Omega_m h^2$	0.14319	$0.1412^{+0.0049}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.0680	$0.0632^{+0.0081}_{-0.0079}$

Best-fit $\chi_{\text{eff}}^2 = 9803.94$; R-1 = 0.00647

χ_{eff}^2 : CMB - lowLike: 2015.09 lowl: -7.59 CamSpec: 7796.26

16.2 base_omegak_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02209	$0.02234^{+0.00058}_{-0.00057}$	β_1^1	0.55	$0.3^{+1.1}_{-1.1}$	σ_8	0.8289	$0.795^{+0.039}_{-0.043}$
$\Omega_c h^2$	0.1210	$0.1180^{+0.0053}_{-0.0051}$	$A_{148}^{\text{PS, ACT}}$	10.32	$10.7^{+1.2}_{-1.1}$	z_{re}	11.40	$10.6^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04115	$1.0416^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	H_0	62.3	55^{+10}_{-9}
τ	0.0933	$0.087^{+0.027}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.40	$7.93^{+3.1}_{-2.9}$	$10^9 A_s$	2.218	$2.17^{+0.11}_{-0.11}$
Ω_K	-0.0111	$-0.042^{+0.043}_{-0.048}$	$A_{150}^{\text{PS, SPT}}$	9.87	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14373	$0.1410^{+0.0050}_{-0.0048}$
n_s	0.9564	$0.963^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	73.0	75^{+9}_{-9}	$\Omega_m h^3$	0.0895	$0.078^{+0.015}_{-0.015}$
$\ln(10^{10} A_s)$	3.0990	$3.079^{+0.051}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.793	> 0.683	Y_P	0.247720	$0.24783^{+0.00025}_{-0.00025}$
A_{100}^{PS}	205	206^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.548	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8401	$1.827^{+0.025}_{-0.024}$
A_{143}^{PS}	71.3	69^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9106	$0.934^{+0.048}_{-0.045}$	Age/Gyr	14.30	$15.2^{+1.3}_{-1.2}$
A_{217}^{PS}	59.6	56^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.408	$0.43^{+0.36}_{-0.39}$	z_*	1090.47	$1089.9^{+1.1}_{-1.0}$
A_{143}^{CIB}	3.18	$3.26^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.839	$0.84^{+0.39}_{-0.39}$	r_*	144.38	$145.0^{+1.1}_{-1.2}$
A_{217}^{CIB}	52.4	50^{+10}_{-10}	y_{148}^{ACTs}	0.9918	$0.994^{+0.014}_{-0.014}$	$100\theta_*$	1.04131	$1.0418^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	4.58	< 5.06	y_{217}^{ACTs}	1.0053	$1.008^{+0.027}_{-0.025}$	z_{drag}	1059.44	$1059.8^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9881	$0.990^{+0.014}_{-0.014}$	r_{drag}	147.13	$147.7^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.841	y_{217}^{ACTe}	0.9623	$0.966^{+0.020}_{-0.020}$	k_D	0.14050	$0.1401^{+0.0012}_{-0.0012}$
γ^{CIB}	0.663	$0.65^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9855	$0.988^{+0.040}_{-0.037}$	$100\theta_D$	0.16127	$0.16110^{+0.00067}_{-0.00065}$
c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00078}$	y_{150}^{SPT}	0.9857	$0.992^{+0.020}_{-0.019}$	z_{eq}	3419	3354^{+120}_{-110}
c_{217}	0.99741	$0.9973^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0177	$1.028^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8097	$0.823^{+0.023}_{-0.023}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.800	Ω_Λ	0.640	$0.57^{+0.13}_{-0.13}$	$r_{\text{drag}}/D_V(0.57)$	0.0676	$0.0623^{+0.0077}_{-0.0073}$
A^{kSZ}	1.68	$4.57^{+3.7}_{-4.5}$	Ω_m	0.371	$0.48^{+0.18}_{-0.17}$			

Best-fit $\chi_{\text{eff}}^2 = 10506.95$; R-1 = 0.00774

χ_{eff}^2 : CMB - lowLike: 2015.30 lowl: -6.43 CamSpec: 7806.59 highL: 691.42

16.3 base_omegak_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02222^{+0.00056}_{-0.00056}$	β_1^1	0.42	$0.4^{+1.1}_{-1.2}$	σ_8	0.8299	$0.822^{+0.032}_{-0.029}$
$\Omega_c h^2$	0.1189	$0.1180^{+0.0061}_{-0.0056}$	$A_{148}^{\text{PS, ACT}}$	10.35	$10.5^{+1.1}_{-1.1}$	z_{re}	11.67	$11.3^{+2.4}_{-2.3}$
$100\theta_{\text{MC}}$	1.04140	$1.0416^{+0.0015}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.5	$76.9^{+7.6}_{-8.6}$	H_0	67.4	67^{+8}_{-6}
τ	0.0970	$0.094^{+0.029}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.43	$7.62^{+2.8}_{-2.7}$	$10^9 A_s$	2.221	$2.20^{+0.12}_{-0.11}$
Ω_K	-0.0008	$-0.002^{+0.015}_{-0.018}$	$A_{150}^{\text{PS, SPT}}$	9.87	$10.13^{+0.96}_{-0.94}$	$\Omega_m h^2$	0.1417	$0.1408^{+0.0053}_{-0.0050}$
n_s	0.9613	$0.963^{+0.015}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	73.2	75^{+9}_{-9}	$\Omega_m h^3$	0.0955	$0.095^{+0.011}_{-0.010}$
$\ln(10^{10} A_s)$	3.100	$3.092^{+0.053}_{-0.050}$	$r_{95 \times 150}^{\text{PS}}$	0.782	> 0.692	Y_P	0.247757	$0.24777^{+0.00024}_{-0.00024}$
A_{100}^{PS}	203	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.531	$0.58^{+0.23}_{-0.21}$	$10^9 A_s e^{-2\tau}$	1.8293	$1.825^{+0.026}_{-0.026}$
A_{143}^{PS}	71.8	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9114	$0.938^{+0.050}_{-0.049}$	Age/Gyr	13.83	$13.87^{+0.74}_{-0.69}$
A_{217}^{PS}	60.0	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.35}_{-0.37}$	z_*	1090.17	$1090.0^{+1.2}_{-1.1}$
A_{143}^{CIB}	3.02	$3.18^{+1.7}_{-1.7}$	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.85^{+0.43}_{-0.37}$	r_*	144.85	$145.1^{+1.3}_{-1.2}$
A_{217}^{CIB}	51.8	49^{+10}_{-9}	y_{148}^{ACTs}	0.9919	$0.993^{+0.013}_{-0.015}$	$100\theta_*$	1.04155	$1.0417^{+0.0014}_{-0.0012}$
A_{143}^{tSZ}	4.33	< 5.04	y_{217}^{ACTs}	1.0040	$1.006^{+0.025}_{-0.025}$	z_{drag}	1059.47	$1059.5^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.811	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9882	$0.989^{+0.012}_{-0.013}$	r_{drag}	147.59	$147.8^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9624	$0.964^{+0.019}_{-0.021}$	k_D	0.14010	$0.1399^{+0.0012}_{-0.0013}$
γ^{CIB}	0.656	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9841	$0.987^{+0.041}_{-0.039}$	$100\theta_D$	0.16125	$0.16125^{+0.00066}_{-0.00071}$
c_{100}	1.00057	$1.00063^{+0.00082}_{-0.00078}$	y_{150}^{SPT}	0.9855	$0.989^{+0.022}_{-0.021}$	z_{eq}	3372	3349^{+130}_{-120}
c_{217}	0.99741	$0.9974^{+0.0024}_{-0.0025}$	y_{220}^{SPT}	1.0157	$1.027^{+0.049}_{-0.047}$	$100\theta_{\text{eq}}$	0.8187	$0.823^{+0.025}_{-0.026}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_Λ	0.688	$0.690^{+0.053}_{-0.054}$	$r_{\text{drag}}/D_V(0.57)$	0.0715	$0.0716^{+0.0058}_{-0.0051}$
A^{kSZ}	2.23	$5.46^{+3.7}_{-4.7}$	Ω_m	0.312	$0.312^{+0.061}_{-0.065}$			

Best-fit $\chi_{\text{eff}}^2 = 10938.46$; R-1 = 0.25250

χ_{eff}^2 : CMB - lowLike: 2014.77 lowl: -6.57 CamSpec: 7808.29 highL: 692.27 SN - SNLS: 429.58

16.4 base_omegak_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02224^{+0.00058}_{-0.00058}$	β_1	0.46	$0.3^{+1.1}_{-1.1}$	σ_8	0.8259	$0.816^{+0.031}_{-0.030}$
$\Omega_c h^2$	0.1193	$0.1181^{+0.0054}_{-0.0054}$	$A_{148}^{\text{PS, ACT}}$	10.34	$10.6^{+1.1}_{-1.1}$	z_{re}	11.55	$11.1^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04122	$1.0416^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.2	$76.9^{+8.3}_{-8.8}$	H_0	63.7	63^{+7}_{-7}
τ	0.0956	$0.092^{+0.029}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.46	$7.75^{+3.0}_{-2.8}$	$10^9 A_s$	2.217	$2.20^{+0.12}_{-0.11}$
Ω_K	-0.0087	$-0.012^{+0.020}_{-0.022}$	$A_{150}^{\text{PS, SPT}}$	9.87	$10.16^{+0.99}_{-0.97}$	$\Omega_m h^2$	0.1420	$0.1410^{+0.0051}_{-0.0050}$
n_s	0.9605	$0.962^{+0.014}_{-0.015}$	$A_{220}^{\text{PS, SPT}}$	73.0	75^{+9}_{-9}	$\Omega_m h^3$	0.0905	$0.089^{+0.011}_{-0.011}$
$\ln(10^{10} A_s)$	3.099	$3.089^{+0.054}_{-0.049}$	$r_{95 \times 150}^{\text{PS}}$	0.789	> 0.684	Y_P	0.247726	$0.24779^{+0.00025}_{-0.00025}$
A_{100}^{PS}	200	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.541	$0.58^{+0.23}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8312	$1.826^{+0.025}_{-0.024}$
A_{143}^{PS}	71.6	71^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9109	$0.936^{+0.048}_{-0.047}$	Age/Gyr	14.20	$14.27^{+0.83}_{-0.78}$
A_{217}^{PS}	59.8	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.412	$0.43^{+0.35}_{-0.38}$	z_*	1090.29	$1090.0^{+1.1}_{-1.1}$
A_{143}^{CIB}	3.14	$3.23^{+1.7}_{-1.7}$	$A_{\text{dust}}^{\text{ACTe}}$	0.852	$0.84^{+0.40}_{-0.38}$	r_*	144.81	$145.0^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.3	50^{+10}_{-10}	y_{148}^{ACTs}	0.9919	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04138	$1.0417^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	4.55	< 5.09	y_{217}^{ACTs}	1.0034	$1.007^{+0.026}_{-0.025}$	z_{drag}	1059.36	$1059.6^{+1.1}_{-1.2}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9882	$0.989^{+0.013}_{-0.013}$	r_{drag}	147.57	$147.7^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9619	$0.965^{+0.019}_{-0.020}$	k_D	0.14006	$0.1400^{+0.0012}_{-0.0012}$
γ^{CIB}	0.662	$0.64^{+0.15}_{-0.16}$	y_{95}^{SPT}	0.9840	$0.986^{+0.040}_{-0.038}$	$100\theta_D$	0.16131	$0.16121^{+0.00067}_{-0.00065}$
c_{100}	1.00058	$1.00060^{+0.00078}_{-0.00080}$	y_{150}^{SPT}	0.9856	$0.990^{+0.020}_{-0.019}$	z_{eq}	3378	3354^{+120}_{-120}
c_{217}	0.99737	$0.9973^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0167	$1.027^{+0.048}_{-0.045}$	$100\theta_{\text{eq}}$	0.8171	$0.822^{+0.022}_{-0.024}$
$\xi^{\text{tSZ-CIB}}$	0.001	< 0.832	Ω_Λ	0.659	$0.658^{+0.061}_{-0.065}$	$r_{\text{drag}}/D_V(0.57)$	0.0687	$0.0685^{+0.0055}_{-0.0053}$
A^{kSZ}	1.80	$5.12^{+3.6}_{-4.4}$	Ω_m	0.350	$0.354^{+0.084}_{-0.079}$			

Best-fit $\chi_{\text{eff}}^2 = 10638.91$; R-1 = 0.04315

χ_{eff}^2 : CMB - lowLike: 2015.20 lowl: -7.15 CamSpec: 7807.09 highL: 691.74 SN - Union2.1: 131.92

16.5 base_omegak_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02234^{+0.00068}_{-0.00065}$	$r_{143 \times 217}^{\text{CIB}}$	0.619	< 0.774	$\Omega_m h^3$	0.0881	$0.071^{+0.018}_{-0.016}$
$\Omega_c h^2$	0.1194	$0.1184^{+0.0056}_{-0.0058}$	γ^{CIB}	0.529	$0.53^{+0.23}_{-0.26}$	Y_P	0.247765	$0.24783^{+0.00029}_{-0.00028}$
$100\theta_{\text{MC}}$	1.04141	$1.0416^{+0.0013}_{-0.0013}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8377	$1.832^{+0.027}_{-0.027}$
τ	0.094	< 0.131	c_{217}	0.99637	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	14.38	$15.9^{+1.7}_{-1.6}$
Ω_K	-0.014	$-0.072^{+0.071}_{-0.081}$	$\xi^{\text{tSZ-CIB}}$	0.42	—	z_*	1090.19	$1089.9^{+1.2}_{-1.2}$
n_s	0.9650	$0.964^{+0.018}_{-0.016}$	A^{kSZ}	0.7	—	r_*	144.70	$144.9^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.099	$3.03^{+0.14}_{-0.12}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04155	$1.0417^{+0.0013}_{-0.0013}$
A_{100}^{PS}	149	160^{+100}_{-100}	Ω_Λ	0.643	$0.48^{+0.20}_{-0.22}$	z_{drag}	1059.55	$1059.8^{+1.3}_{-1.3}$
A_{143}^{PS}	63.8	50^{+30}_{-20}	Ω_m	0.371	$0.59^{+0.30}_{-0.27}$	r_{drag}	147.43	$147.6^{+1.2}_{-1.2}$
A_{217}^{PS}	123.0	107^{+30}_{-30}	σ_8	0.825	$0.761^{+0.083}_{-0.076}$	k_D	0.14027	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	< 14.1	$100\theta_D$	0.16120	$0.16108^{+0.00073}_{-0.00071}$
A_{217}^{CIB}	23	27^{+10}_{-10}	H_0	61.9	50^{+10}_{-10}	z_{eq}	3384	3362^{+130}_{-130}
A_{143}^{tSZ}	5.53	—	$10^9 A_s$	2.217	< 2.37	$100\theta_{\text{eq}}$	0.8165	$0.821^{+0.026}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.938	> 0.735	$\Omega_m h^2$	0.1423	$0.1413^{+0.0053}_{-0.0053}$	$r_{\text{drag}}/D_V(0.57)$	0.0674	$0.0586^{+0.0090}_{-0.0085}$

Best-fit $\chi_{\text{eff}}^2 = 7787.76$; R-1 = 0.00644

χ_{eff}^2 : CMB - lowl: -8.25 CamSpec: 7795.28

16.6 base_omegak_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02224^{+0.00060}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.658	< 0.821	$\Omega_m h^3$	0.0952	$0.086^{+0.014}_{-0.012}$
$\Omega_c h^2$	0.1177	$0.1179^{+0.0057}_{-0.0056}$	γ^{CIB}	0.549	$0.52^{+0.24}_{-0.24}$	Y_P	0.247793	$0.24778^{+0.00025}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04147	$1.0415^{+0.0013}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8292	$1.828^{+0.028}_{-0.028}$
τ	0.096	< 0.123	c_{217}	0.99633	$0.9963^{+0.0029}_{-0.0026}$	Age/Gyr	13.84	$14.5^{+1.0}_{-1.1}$
Ω_K	-0.0012	$-0.018^{+0.028}_{-0.027}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1089.95	$1090.0^{+1.2}_{-1.2}$
n_s	0.9688	$0.963^{+0.017}_{-0.016}$	A^{kSZ}	0.7	—	r_*	145.11	$145.1^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.098	< 3.14	β_1^1	0.63	$0.4^{+1.1}_{-1.0}$	$100\theta_*$	1.04161	$1.0416^{+0.0013}_{-0.0012}$
A_{100}^{PS}	144	168^{+100}_{-100}	Ω_Λ	0.694	$0.638^{+0.088}_{-0.084}$	z_{drag}	1059.59	$1059.6^{+1.2}_{-1.3}$
A_{143}^{PS}	61.6	51^{+30}_{-30}	Ω_m	0.307	$0.38^{+0.11}_{-0.11}$	r_{drag}	147.83	$147.8^{+1.2}_{-1.2}$
A_{217}^{PS}	119.8	104^{+30}_{-30}	σ_8	0.827	$0.784^{+0.064}_{-0.055}$	k_D	0.13991	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.5	< 13.5	$100\theta_D$	0.16118	$0.16121^{+0.00072}_{-0.00062}$
A_{217}^{CIB}	24	29^{+10}_{-10}	H_0	67.7	61^{+10}_{-9}	z_{eq}	3344	3349^{+120}_{-130}
A_{143}^{tSZ}	6.43	—	$10^9 A_s$	2.216	< 2.32	$100\theta_{\text{eq}}$	0.8240	$0.823^{+0.025}_{-0.024}$
$r_{143 \times 217}^{\text{PS}}$	0.914	> 0.732	$\Omega_m h^2$	0.1406	$0.1408^{+0.0052}_{-0.0054}$	$r_{\text{drag}}/D_V(0.57)$	0.0717	$0.0670^{+0.0075}_{-0.0066}$

Best-fit $\chi_{\text{eff}}^2 = 7801.06$; R-1 = 0.10491

χ_{eff}^2 : CMB - lensing: 9.88 lowl: -7.95 CamSpec: 7798.55

16.7 base_omegak_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02268	$0.0226^{+0.0011}_{-0.0010}$	σ_8	0.814	$0.795^{+0.067}_{-0.072}$	r_*	145.66	$145.8^{+2.4}_{-2.3}$
$\Omega_c h^2$	0.1144	$0.1142^{+0.0094}_{-0.0090}$	z_{re}	10.85	$10.6^{+2.2}_{-2.3}$	$100\theta_*$	1.04066	$1.0402^{+0.0044}_{-0.0045}$
$100\theta_{\text{MC}}$	1.04056	$1.0401^{+0.0045}_{-0.0046}$	H_0	68.8	64^{+30}_{-30}	z_{drag}	1060.31	$1060.1^{+2.3}_{-2.3}$
τ	0.0907	$0.088^{+0.029}_{-0.026}$	$10^9 A_s$	2.219	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.25	$148.4^{+2.4}_{-2.4}$
Ω_K	-0.001	> -0.143	$\Omega_m h^2$	0.1377	$0.1375^{+0.0091}_{-0.0088}$	k_D	0.13977	$0.1396^{+0.0027}_{-0.0028}$
n_s	0.9744	$0.972^{+0.028}_{-0.026}$	$\Omega_m h^3$	0.0948	$0.088^{+0.035}_{-0.038}$	$100\theta_D$	0.16058	$0.1606^{+0.0011}_{-0.0010}$
$\ln(10^{10} A_s)$	3.100	$3.092^{+0.061}_{-0.059}$	Y_P	0.247971	$0.24794^{+0.00044}_{-0.00043}$	z_{eq}	3274	3269^{+220}_{-210}
A_{tSZ}	0.65	—	$10^9 A_s e^{-2\tau}$	1.851	$1.846^{+0.061}_{-0.061}$	$100\theta_{\text{eq}}$	0.8375	$0.839^{+0.043}_{-0.041}$
Ω_Λ	0.711	> 0.280	Age/Gyr	13.82	$14.4^{+3.2}_{-2.8}$	$r_{\text{drag}}/D_V(0.57)$	0.0726	$0.069^{+0.021}_{-0.021}$
Ω_m	0.291	< 0.861	z_*	1089.14	$1089.2^{+1.7}_{-1.7}$			

Best-fit $\chi^2_{\text{eff}} = 7558.18$; R-1 = 0.00842

χ^2_{eff} : CMB - WMAP: 7558.18

16.8 base_omegak_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02264	$0.02265^{+0.00098}_{-0.00090}$	σ_8	0.8063	$0.806^{+0.049}_{-0.047}$	r_*	146.10	$145.9^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1128	$0.1135^{+0.0085}_{-0.0081}$	z_{re}	10.93	$10.7^{+2.1}_{-2.3}$	$100\theta_*$	1.04017	$1.0403^{+0.0041}_{-0.0043}$
$100\theta_{\text{MC}}$	1.04007	$1.0402^{+0.0042}_{-0.0043}$	H_0	67.84	$68.1^{+2.2}_{-2.1}$	z_{drag}	1060.12	$1060.2^{+2.1}_{-2.1}$
τ	0.0921	$0.089^{+0.028}_{-0.028}$	$10^9 A_s$	2.215	$2.20^{+0.13}_{-0.13}$	r_{drag}	148.71	$148.5^{+2.4}_{-2.3}$
Ω_K	-0.0040	$-0.0033^{+0.0087}_{-0.0086}$	$\Omega_m h^2$	0.1361	$0.1368^{+0.0084}_{-0.0082}$	k_D	0.13927	$0.1395^{+0.0028}_{-0.0027}$
n_s	0.9757	$0.974^{+0.024}_{-0.024}$	$\Omega_m h^3$	0.0924	$0.0931^{+0.0070}_{-0.0068}$	$100\theta_D$	0.16061	$0.1606^{+0.0010}_{-0.00095}$
$\ln(10^{10} A_s)$	3.098	$3.092^{+0.060}_{-0.060}$	Y_P	0.247955	$0.24796^{+0.00041}_{-0.00038}$	z_{eq}	3237	3253^{+200}_{-200}
A_{tSZ}	0.10	—	$10^9 A_s e^{-2\tau}$	1.842	$1.843^{+0.059}_{-0.056}$	$100\theta_{\text{eq}}$	0.8442	$0.842^{+0.039}_{-0.038}$
Ω_Λ	0.7083	$0.708^{+0.025}_{-0.026}$	Age/Gyr	13.963	$13.92^{+0.39}_{-0.37}$	$r_{\text{drag}}/D_V(0.57)$	0.07187	$0.0720^{+0.0016}_{-0.0015}$
Ω_m	0.2957	$0.295^{+0.023}_{-0.023}$	z_*	1089.06	$1089.1^{+1.5}_{-1.5}$			

Best-fit $\chi^2_{\text{eff}} = 7559.45$; R-1 = 0.02268

χ^2_{eff} : BAO - 6DF: 0.01 DR7: 0.77 DR9: 0.34 CMB - WMAP: 7558.34

16.9 base_omegak_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02281	$0.02276^{+0.00094}_{-0.00093}$	σ_8	0.8124	$0.809^{+0.049}_{-0.049}$	r_*	145.97	$146.0^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1128	$0.1130^{+0.0088}_{-0.0085}$	z_{re}	11.19	$10.7^{+2.2}_{-2.1}$	$100\theta_*$	1.04063	$1.0406^{+0.0041}_{-0.0043}$
$100\theta_{\text{MC}}$	1.04055	$1.0405^{+0.0042}_{-0.0043}$	H_0	73.74	$73.6^{+4.6}_{-4.7}$	z_{drag}	1060.51	$1060.4^{+2.3}_{-2.1}$
τ	0.0952	$0.090^{+0.028}_{-0.027}$	$10^9 A_s$	2.225	$2.21^{+0.14}_{-0.13}$	r_{drag}	148.52	$148.6^{+2.4}_{-2.3}$
Ω_K	0.0060	$0.0057^{+0.0095}_{-0.010}$	$\Omega_m h^2$	0.1363	$0.1364^{+0.0084}_{-0.0084}$	k_D	0.13958	$0.1395^{+0.0026}_{-0.0027}$
n_s	0.9772	$0.977^{+0.024}_{-0.024}$	$\Omega_m h^3$	0.1005	$0.1003^{+0.0086}_{-0.0085}$	$100\theta_D$	0.16046	$0.1605^{+0.0010}_{-0.00097}$
$\ln(10^{10} A_s)$	3.102	$3.093^{+0.063}_{-0.058}$	Y_P	0.248024	$0.24800^{+0.00039}_{-0.00039}$	z_{eq}	3241	3243^{+200}_{-200}
A_{tSZ}	1.47	—	$10^9 A_s e^{-2\tau}$	1.839	$1.842^{+0.060}_{-0.061}$	$100\theta_{\text{eq}}$	0.8443	$0.844^{+0.042}_{-0.039}$
Ω_Λ	0.7434	$0.742^{+0.035}_{-0.036}$	Age/Gyr	13.400	$13.42^{+0.49}_{-0.46}$	$r_{\text{drag}}/D_V(0.57)$	0.07635	$0.0763^{+0.0037}_{-0.0037}$
Ω_m	0.2506	$0.253^{+0.039}_{-0.037}$	z_*	1088.86	$1088.9^{+1.5}_{-1.4}$			

Best-fit $\chi^2_{\text{eff}} = 7558.56$; R-1 = 0.01620

χ^2_{eff} : CMB - WMAP: 7558.55 Hubble - HST: 0.00

16.10 base_omegak_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02277	$0.02282^{+0.00099}_{-0.00096}$	σ_8	0.8159	$0.807^{+0.049}_{-0.047}$	r_*	145.88	$146.1^{+2.2}_{-2.1}$
$\Omega_c h^2$	0.1133	$0.1122^{+0.0082}_{-0.0081}$	z_{re}	10.93	$10.8^{+2.2}_{-2.2}$	$100\theta_*$	1.04085	$1.0407^{+0.0042}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04076	$1.0407^{+0.0043}_{-0.0044}$	H_0	77.0	77^{+10}_{-10}	z_{drag}	1060.47	$1060.5^{+2.2}_{-2.3}$
τ	0.0915	$0.091^{+0.028}_{-0.028}$	$10^9 A_s$	2.220	$2.21^{+0.14}_{-0.14}$	r_{drag}	148.44	$148.7^{+2.3}_{-2.2}$
Ω_K	0.0108	$0.009^{+0.017}_{-0.018}$	$\Omega_m h^2$	0.1367	$0.1357^{+0.0079}_{-0.0079}$	k_D	0.13965	$0.1394^{+0.0027}_{-0.0027}$
n_s	0.9792	$0.979^{+0.024}_{-0.025}$	$\Omega_m h^3$	0.1052	$0.104^{+0.018}_{-0.017}$	$100\theta_D$	0.16052	$0.1605^{+0.0010}_{-0.00098}$
$\ln(10^{10} A_s)$	3.100	$3.093^{+0.064}_{-0.059}$	Y_P	0.248011	$0.24803^{+0.00041}_{-0.00041}$	z_{eq}	3251	3226^{+190}_{-190}
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.849	$1.838^{+0.059}_{-0.058}$	$100\theta_{\text{eq}}$	0.8425	$0.848^{+0.040}_{-0.037}$
Ω_Λ	0.759	$0.756^{+0.061}_{-0.062}$	Age/Gyr	13.10	$13.2^{+1.0}_{-1.1}$	$r_{\text{drag}}/D_V(0.57)$	0.0789	$0.0787^{+0.0099}_{-0.0092}$
Ω_m	0.231	$0.235^{+0.076}_{-0.074}$	z_*	1088.93	$1088.8^{+1.5}_{-1.5}$			

Best-fit $\chi^2_{\text{eff}} = 7983.55$; R-1 = 0.01394

χ^2_{eff} : CMB - WMAP: 7558.22 SN - SNLS: 425.33

16.11 base_omegak_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02273	$0.02270^{+0.00097}_{-0.00093}$	σ_8	0.8127	$0.807^{+0.049}_{-0.047}$	r_*	145.75	$146.0^{+2.3}_{-2.2}$
$\Omega_c h^2$	0.1139	$0.1133^{+0.0084}_{-0.0080}$	z_{re}	10.91	$10.7^{+2.2}_{-2.3}$	$100\theta_*$	1.04059	$1.0405^{+0.0042}_{-0.0043}$
$100\theta_{\text{MC}}$	1.04048	$1.0404^{+0.0042}_{-0.0044}$	H_0	69.5	71^{+10}_{-10}	z_{drag}	1060.39	$1060.3^{+2.1}_{-2.2}$
τ	0.0917	$0.090^{+0.028}_{-0.026}$	$10^9 A_s$	2.220	$2.21^{+0.14}_{-0.13}$	r_{drag}	148.33	$148.5^{+2.4}_{-2.3}$
Ω_K	-0.0005	$0.000^{+0.021}_{-0.023}$	$\Omega_m h^2$	0.1373	$0.1366^{+0.0082}_{-0.0080}$	k_D	0.13973	$0.1395^{+0.0026}_{-0.0027}$
n_s	0.9757	$0.975^{+0.025}_{-0.024}$	$\Omega_m h^3$	0.0953	$0.096^{+0.018}_{-0.017}$	$100\theta_D$	0.16052	$0.1606^{+0.0010}_{-0.00098}$
$\ln(10^{10} A_s)$	3.100	$3.093^{+0.061}_{-0.059}$	Y_P	0.247991	$0.24798^{+0.00040}_{-0.00040}$	z_{eq}	3264	3249^{+200}_{-190}
A_{tSZ}	0.81	—	$10^9 A_s e^{-2\tau}$	1.848	$1.842^{+0.059}_{-0.058}$	$100\theta_{\text{eq}}$	0.8396	$0.843^{+0.039}_{-0.038}$
Ω_Λ	0.716	$0.720^{+0.074}_{-0.077}$	Age/Gyr	13.77	$13.7^{+1.1}_{-1.1}$	$r_{\text{drag}}/D_V(0.57)$	0.0730	$0.0739^{+0.0094}_{-0.0088}$
Ω_m	0.285	$0.280^{+0.096}_{-0.092}$	z_*	1089.04	$1089.0^{+1.5}_{-1.4}$			

Best-fit $\chi^2_{\text{eff}} = 7688.16$; R-1 = 0.01021

χ^2_{eff} : CMB - WMAP: 7558.24 SN - Union2.1: 129.92

16.12 base_omegak_planck_lowl_lowLike_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02212^{+0.00059}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.591	< 0.810	$\Omega_m h^3$	0.09592	$0.0960^{+0.0047}_{-0.0045}$
$\Omega_c h^2$	0.1198	$0.1188^{+0.0053}_{-0.0052}$	γ^{CIB}	0.577	$0.53^{+0.24}_{-0.25}$	Y_P	0.247729	$0.24773^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04118	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8385	$1.831^{+0.025}_{-0.025}$
τ	0.0930	$0.091^{+0.027}_{-0.027}$	c_{217}	0.99638	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.816	$13.80^{+0.27}_{-0.26}$
Ω_K	0.0000	$0.0000^{+0.0066}_{-0.0067}$	$\xi^{\text{tSZ-CIB}}$	0.12	—	z_*	1090.33	$1090.2^{+1.1}_{-1.1}$
n_s	0.9624	$0.963^{+0.015}_{-0.014}$	A^{kSZ}	0.4	—	r_*	144.68	$144.9^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.097	$3.090^{+0.052}_{-0.049}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04133	$1.0416^{+0.0013}_{-0.0012}$
A_{100}^{PS}	151	170^{+100}_{-100}	Ω_Λ	0.6853	$0.691^{+0.020}_{-0.021}$	z_{drag}	1059.40	$1059.3^{+1.2}_{-1.2}$
A_{143}^{PS}	65.5	53^{+30}_{-30}	Ω_m	0.3147	$0.309^{+0.022}_{-0.020}$	r_{drag}	147.43	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	120.5	106^{+30}_{-30}	σ_8	0.8324	$0.826^{+0.027}_{-0.027}$	k_D	0.14021	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.37	$11.2^{+2.2}_{-2.2}$	$100\theta_D$	0.16128	$0.16134^{+0.00068}_{-0.00068}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	67.30	$67.8^{+2.0}_{-2.1}$	z_{eq}	3390	3368^{+120}_{-120}
A_{143}^{tSZ}	6.56	—	$10^9 A_s$	2.214	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8149	$0.819^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.921	> 0.736	$\Omega_m h^2$	0.14253	$0.1416^{+0.0050}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07144	$0.0718^{+0.0016}_{-0.0016}$

Best-fit $\chi^2_{\text{eff}} = 9807.66$; R-1 = 0.00682

χ^2_{eff} : BAO - DR9: 0.05 DR7: 2.01 6DF: 0.00 CMB - lowLike: 2014.46 lowl: -6.82 CamSpec: 7797.58

16.13 base_omegak_planck_lowl_lowLike_highL_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02218^{+0.00057}_{-0.00054}$	β_1^1	0.43	$0.4^{+1.1}_{-1.1}$	σ_8	0.8316	$0.825^{+0.027}_{-0.026}$
$\Omega_c h^2$	0.1194	$0.1185^{+0.0052}_{-0.0051}$	$A_{148}^{\text{PS, ACT}}$	10.29	$10.5^{+1.2}_{-1.1}$	z_{re}	11.60	$11.3^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04144	$1.0415^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.1	77^{+9}_{-9}	H_0	68.02	$67.7^{+2.1}_{-2.0}$
τ	0.0958	$0.093^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.12	$7.66^{+3.0}_{-2.8}$	$10^9 A_s$	2.218	$2.20^{+0.11}_{-0.11}$
Ω_K	0.0009	$-0.0005^{+0.0065}_{-0.0066}$	$A_{150}^{\text{PS, SPT}}$	9.80	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14215	$0.1414^{+0.0049}_{-0.0047}$
n_s	0.9602	$0.961^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	72.9	74^{+9}_{-9}	$\Omega_m h^3$	0.09669	$0.0957^{+0.0046}_{-0.0044}$
$\ln(10^{10} A_s)$	3.0994	$3.091^{+0.051}_{-0.048}$	$r_{95 \times 150}^{\text{PS}}$	0.811	> 0.681	Y_P	0.247746	$0.24776^{+0.00024}_{-0.00023}$
A_{100}^{PS}	200	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.565	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8315	$1.827^{+0.024}_{-0.023}$
A_{143}^{PS}	71.9	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9118	$0.937^{+0.047}_{-0.044}$	Age/Gyr	13.758	$13.82^{+0.26}_{-0.26}$
A_{217}^{PS}	60.2	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.419	$0.43^{+0.36}_{-0.39}$	z_*	1090.24	$1090.1^{+1.0}_{-1.1}$
A_{143}^{CIB}	3.31	$3.25^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.85^{+0.39}_{-0.39}$	r_*	144.75	$145.0^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.4	50^{+10}_{-10}	y_{148}^{ACTs}	0.9917	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04158	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.78	< 5.10	y_{217}^{ACTs}	1.0024	$1.006^{+0.026}_{-0.026}$	z_{drag}	1059.47	$1059.5^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9880	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.50	$147.7^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9612	$0.964^{+0.020}_{-0.020}$	k_D	0.14017	$0.1400^{+0.0012}_{-0.0012}$
γ^{CIB}	0.658	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9857	$0.985^{+0.039}_{-0.037}$	$100\theta_D$	0.16127	$0.16128^{+0.00065}_{-0.00065}$
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00079}$	y_{150}^{SPT}	0.9850	$0.988^{+0.019}_{-0.018}$	z_{eq}	3381	3362^{+120}_{-110}
c_{217}	0.99738	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0170	$1.025^{+0.047}_{-0.043}$	$100\theta_{\text{eq}}$	0.8168	$0.821^{+0.023}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.012	< 0.837	Ω_Λ	0.6918	$0.692^{+0.020}_{-0.021}$	$r_{\text{drag}}/D_V(0.57)$	0.07198	$0.0717^{+0.0016}_{-0.0016}$
A^{kSZ}	1.67	—	Ω_m	0.3073	$0.309^{+0.022}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10510.75$; R-1 = 0.00750

χ_{eff}^2 : BAO - DR7: 0.86 DR9: 0.46 6DF: 0.03 CMB - lowLike: 2014.59 lowl: -6.15 CamSpec: 7808.14 highL: 692.72

16.14 base_omegak_planck_lowl_lowLike_highL_BAO_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02218^{+0.00056}_{-0.00054}$	β_1^1	0.43	$0.4^{+1.0}_{-1.1}$	σ_8	0.8328	$0.826^{+0.027}_{-0.026}$
$\Omega_c h^2$	0.1195	$0.1187^{+0.0053}_{-0.0051}$	$A_{148}^{\text{PS, ACT}}$	10.26	$10.5^{+1.2}_{-1.1}$	z_{re}	11.60	$11.3^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04137	$1.0415^{+0.0013}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	74.8	77^{+9}_{-9}	H_0	68.75	$68.6^{+1.9}_{-1.9}$
τ	0.0957	$0.093^{+0.026}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.38	$7.64^{+2.9}_{-2.8}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.11}$
Ω_K	0.0024	$0.0015^{+0.0063}_{-0.0061}$	$A_{150}^{\text{PS, SPT}}$	9.72	$10.1^{+1.0}_{-0.98}$	$\Omega_m h^2$	0.14229	$0.1415^{+0.0049}_{-0.0048}$
n_s	0.9602	$0.961^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	71.9	74^{+9}_{-9}	$\Omega_m h^3$	0.09782	$0.0971^{+0.0048}_{-0.0043}$
$\ln(10^{10} A_s)$	3.0995	$3.091^{+0.051}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.810	> 0.682	Y_P	0.247753	$0.24776^{+0.00024}_{-0.00023}$
A_{100}^{PS}	201	213^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.568	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8321	$1.828^{+0.025}_{-0.024}$
A_{143}^{PS}	71.8	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9086	$0.937^{+0.047}_{-0.044}$	Age/Gyr	13.683	$13.72^{+0.24}_{-0.26}$
A_{217}^{PS}	57.9	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.43^{+0.36}_{-0.38}$	z_*	1090.23	$1090.2^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.48	$3.26^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.85^{+0.39}_{-0.38}$	r_*	144.71	$144.9^{+1.2}_{-1.1}$
A_{217}^{CIB}	54.5	50^{+10}_{-10}	y_{148}^{ACTs}	0.9915	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04152	$1.0417^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	5.05	< 5.13	y_{217}^{ACTs}	1.0031	$1.006^{+0.026}_{-0.026}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.837	$0.82^{+0.15}_{-0.13}$	y_{148}^{ACTe}	0.9876	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.45	$147.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9623	$0.964^{+0.020}_{-0.020}$	k_D	0.14023	$0.1400^{+0.0012}_{-0.0012}$
γ^{CIB}	0.683	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9846	$0.985^{+0.039}_{-0.037}$	$100\theta_D$	0.16124	$0.16127^{+0.00064}_{-0.00066}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	y_{150}^{SPT}	0.9849	$0.988^{+0.019}_{-0.018}$	z_{eq}	3385	3366^{+120}_{-120}
c_{217}	0.99741	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0187	$1.024^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8163	$0.820^{+0.023}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.851	Ω_Λ	0.6965	$0.698^{+0.019}_{-0.019}$	$r_{\text{drag}}/D_V(0.57)$	0.07253	$0.0725^{+0.0015}_{-0.0014}$
A^{kSZ}	1.06	—	Ω_m	0.3011	$0.301^{+0.019}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10516.40$; R-1 =0.02117

χ_{eff}^2 : BAO - DR9: 1.30 DR7: 0.19 6DF: 0.11 CMB - lowLike: 2014.50 lowl: -5.99 CamSpec: 7809.12 highL: 692.66 Hubble - HST: 4.42

16.15 base_omegak_planck_lowl_lowLike_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02213	$0.02216^{+0.00059}_{-0.00058}$	$r_{143 \times 217}^{\text{PS}}$	0.947	> 0.733	$\Omega_m h^3$	0.0959	$0.097^{+0.013}_{-0.012}$
$\Omega_c h^2$	0.1193	$0.1183^{+0.0054}_{-0.0052}$	$r_{143 \times 217}^{\text{CIB}}$	0.567	< 0.807	Y_{P}	0.247737	$0.24775^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04126	$1.0415^{+0.0013}_{-0.0013}$	γ^{CIB}	0.564	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8366	$1.829^{+0.026}_{-0.025}$
τ	0.0942	$0.092^{+0.027}_{-0.024}$	c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00078}$	Age/Gyr	13.81	$13.71^{+0.81}_{-0.82}$
Ω_K	0.0000	$0.001^{+0.017}_{-0.018}$	c_{217}	0.99645	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.26	$1090.1^{+1.1}_{-1.1}$
n_s	0.9652	$0.964^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.35	—	r_*	144.80	$145.0^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.0990	$3.090^{+0.052}_{-0.047}$	A^{ksZ}	0.0	—	$100\theta_*$	1.04140	$1.0417^{+0.0012}_{-0.0012}$
α_{SNLS}	1.414	$1.43^{+0.22}_{-0.20}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.40	$1059.4^{+1.2}_{-1.2}$
β_{SNLS}	3.248	$3.26^{+0.22}_{-0.21}$	Ω_Λ	0.688	$0.699^{+0.055}_{-0.055}$	r_{drag}	147.55	$147.8^{+1.1}_{-1.2}$
A_{100}^{PS}	152	169^{+100}_{-100}	Ω_m	0.312	$0.299^{+0.071}_{-0.071}$	k_{D}	0.14010	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{PS}	65.6	53^{+30}_{-30}	σ_8	0.8321	$0.825^{+0.030}_{-0.029}$	$100\theta_{\text{D}}$	0.16128	$0.16132^{+0.00069}_{-0.00067}$
A_{217}^{PS}	122.8	106^{+30}_{-30}	z_{re}	11.46	$11.2^{+2.2}_{-2.1}$	z_{eq}	3378	3356^{+120}_{-120}
A_{143}^{CIB}	0.0	—	H_0	67.5	69^{+9}_{-8}	$100\theta_{\text{eq}}$	0.8171	$0.822^{+0.023}_{-0.023}$
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.218	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.0716	$0.0728^{+0.0066}_{-0.0063}$
A_{143}^{tSZ}	5.92	—	$\Omega_m h^2$	0.14203	$0.1411^{+0.0051}_{-0.0048}$			

Best-fit $\chi_{\text{eff}}^2 = 10229.86$; R-1 = 0.00986

χ_{eff}^2 : CMB - lowLike: 2014.50 lowl: -7.32 CamSpec: 7797.94 SN - SNLS: 424.29

16.16 base_omegak_planck_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02224	$0.02217^{+0.00056}_{-0.00057}$	$r_{143 \times 217}^{\text{PS}}$	0.967	> 0.737	$\Omega_m h^3$	0.09627	$0.0961^{+0.0047}_{-0.0044}$
$\Omega_c h^2$	0.1184	$0.1182^{+0.0052}_{-0.0051}$	$r_{143 \times 217}^{\text{CIB}}$	0.664	< 0.804	Y_{P}	0.247785	$0.24775^{+0.00024}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04149	$1.0415^{+0.0013}_{-0.0013}$	γ^{CIB}	0.561	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8333	$1.828^{+0.025}_{-0.025}$
τ	0.0956	$0.092^{+0.027}_{-0.026}$	c_{100}	1.00059	$1.00057^{+0.00078}_{-0.00080}$	Age/Gyr	13.774	$13.78^{+0.26}_{-0.26}$
Ω_K	0.0003	$0.0002^{+0.0065}_{-0.0064}$	c_{217}	0.99638	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.04	$1090.1^{+1.1}_{-1.0}$
n_s	0.9677	$0.964^{+0.015}_{-0.015}$	$\xi^{\text{tSZ-CIB}}$	0.37	—	r_*	144.93	$145.1^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.1000	$3.090^{+0.052}_{-0.046}$	A^{kSZ}	0.5	—	$100\theta_*$	1.04163	$1.0417^{+0.0012}_{-0.0013}$
α_{SNLS}	1.419	$1.43^{+0.22}_{-0.21}$	β_1^1	0.71	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.59	$1059.4^{+1.2}_{-1.2}$
β_{SNLS}	3.248	$3.25^{+0.22}_{-0.21}$	Ω_Λ	0.6954	$0.696^{+0.019}_{-0.020}$	r_{drag}	147.65	$147.8^{+1.1}_{-1.1}$
A_{100}^{PS}	139	168^{+100}_{-100}	Ω_m	0.3044	$0.304^{+0.020}_{-0.019}$	k_{D}	0.14008	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{PS}	60.7	53^{+30}_{-30}	σ_8	0.8302	$0.824^{+0.027}_{-0.026}$	$100\theta_{\text{D}}$	0.16118	$0.16130^{+0.00069}_{-0.00065}$
A_{217}^{PS}	123.3	106^{+30}_{-30}	z_{re}	11.52	$11.2^{+2.2}_{-2.1}$	z_{eq}	3361	3353^{+120}_{-110}
A_{143}^{CIB}	0.0	—	H_0	68.13	$68.1^{+2.0}_{-2.0}$	$100\theta_{\text{eq}}$	0.8208	$0.822^{+0.023}_{-0.022}$
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.220	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07206	$0.0721^{+0.0015}_{-0.0015}$
A_{143}^{tSZ}	6.74	—	$\Omega_m h^2$	0.14130	$0.1410^{+0.0049}_{-0.0048}$			

Best-fit $\chi_{\text{eff}}^2 = 10231.03$; R-1 = 0.01899

χ_{eff}^2 : BAO - DR7: 0.69 6DF: 0.04 DR9: 0.56 CMB - lowLike: 2014.49 lowl: -7.62 CamSpec: 7798.75 SN - SNLS: 423.65

16.17 base_omegak_planck_lowl_lowLike_SNLS_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02210^{+0.00057}_{-0.00057}$	$r_{143 \times 217}^{\text{PS}}$	0.885	> 0.734	$\Omega_m h^3$	0.1024	$0.1027^{+0.0072}_{-0.0070}$
$\Omega_c h^2$	0.1179	$0.1186^{+0.0052}_{-0.0051}$	$r_{143 \times 217}^{\text{CIB}}$	0.633	< 0.809	Y_{P}	0.247780	$0.24773^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04160	$1.0415^{+0.0012}_{-0.0013}$	γ^{CIB}	0.547	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8301	$1.830^{+0.026}_{-0.024}$
τ	0.0969	$0.092^{+0.027}_{-0.026}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	Age/Gyr	13.359	$13.35^{+0.43}_{-0.42}$
Ω_K	0.0080	$0.0085^{+0.0081}_{-0.0089}$	c_{217}	0.99653	$0.9964^{+0.0027}_{-0.0026}$	z_*	1090.02	$1090.2^{+1.1}_{-1.0}$
n_s	0.9679	$0.963^{+0.015}_{-0.014}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	145.06	$145.0^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.1007	$3.091^{+0.051}_{-0.046}$	A^{kSZ}	1.29	—	$100\theta_*$	1.04174	$1.0416^{+0.0012}_{-0.0012}$
α_{SNLS}	1.422	$1.43^{+0.21}_{-0.20}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.55	$1059.3^{+1.1}_{-1.2}$
β_{SNLS}	3.248	$3.26^{+0.22}_{-0.21}$	Ω_Λ	0.7255	$0.723^{+0.027}_{-0.029}$	r_{drag}	147.79	$147.7^{+1.1}_{-1.2}$
A_{100}^{PS}	146	171^{+100}_{-100}	Ω_m	0.2665	$0.269^{+0.035}_{-0.031}$	k_{D}	0.13993	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{PS}	62.1	53^{+30}_{-30}	σ_8	0.8329	$0.831^{+0.028}_{-0.026}$	$100\theta_{\text{D}}$	0.16123	$0.16137^{+0.00069}_{-0.00066}$
A_{217}^{PS}	119.2	106^{+30}_{-30}	z_{re}	11.66	$11.3^{+2.2}_{-2.1}$	z_{eq}	3349	3363^{+120}_{-110}
A_{143}^{CIB}	0.0	—	H_0	72.69	$72.6^{+4.4}_{-4.2}$	$100\theta_{\text{eq}}$	0.8230	$0.820^{+0.023}_{-0.022}$
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.221	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07559	$0.0756^{+0.0034}_{-0.0033}$
A_{143}^{tSZ}	6.63	—	$\Omega_m h^2$	0.14081	$0.1414^{+0.0049}_{-0.0048}$			

Best-fit $\chi_{\text{eff}}^2 = 10230.91$; R-1 = 0.01690

χ_{eff}^2 : CMB - lowLike: 2014.10 lowl: -6.72 CamSpec: 7801.52 Hubble - HST: 0.24 SN - SNLS: 421.18

16.18 base_omegak_planck_lowl_lowLike_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.02220^{+0.00060}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.431	< 0.794	$\Omega_m h^3$	0.0944	$0.091^{+0.013}_{-0.012}$
$\Omega_c h^2$	0.1195	$0.1184^{+0.0052}_{-0.0052}$	γ^{CIB}	0.547	$0.53^{+0.23}_{-0.26}$	Y_P	0.247740	$0.24777^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04130	$1.0415^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8372	$1.830^{+0.024}_{-0.025}$
τ	0.0937	$0.091^{+0.026}_{-0.024}$	c_{217}	0.99639	$0.9964^{+0.0027}_{-0.0026}$	Age/Gyr	13.92	$14.17^{+0.87}_{-0.86}$
Ω_K	-0.0024	$-0.009^{+0.021}_{-0.023}$	$\xi^{\text{tSZ-CIB}}$	0.25	—	z_*	1090.28	$1090.1^{+1.1}_{-1.1}$
n_s	0.9642	$0.964^{+0.015}_{-0.014}$	A^{kSZ}	1.47	—	r_*	144.72	$145.0^{+1.2}_{-1.1}$
$\ln(10^{10} A_s)$	3.0983	$3.088^{+0.050}_{-0.047}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04146	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	145	166^{+100}_{-100}	Ω_Λ	0.679	$0.664^{+0.060}_{-0.068}$	z_{drag}	1059.44	$1059.5^{+1.2}_{-1.2}$
A_{143}^{PS}	61.5	52^{+30}_{-30}	Ω_m	0.323	$0.345^{+0.088}_{-0.083}$	r_{drag}	147.47	$147.7^{+1.1}_{-1.1}$
A_{217}^{PS}	121.3	106^{+30}_{-30}	σ_8	0.8311	$0.819^{+0.030}_{-0.031}$	k_D	0.14019	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.41	$11.0^{+2.1}_{-2.2}$	$100\theta_D$	0.16127	$0.16125^{+0.00070}_{-0.00067}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	66.4	64^{+8}_{-8}	z_{eq}	3385	3359^{+120}_{-120}
A_{143}^{tSZ}	6.37	—	$10^9 A_s$	2.216	$2.19^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8161	$0.821^{+0.023}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.931	> 0.737	$\Omega_m h^2$	0.14230	$0.1412^{+0.0049}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.0707	$0.0692^{+0.0063}_{-0.0061}$

Best-fit $\chi_{\text{eff}}^2 = 9935.86$; R-1 = 0.01654

χ_{eff}^2 : CMB - lowLike: 2014.63 lowl: -7.37 CamSpec: 7797.20 SN - Union2.1: 130.82

16.19 base_omegak_planck_lowl_lowLike_Union2_post_lensing

Best-fit $\chi_{\text{eff}}^2 = 9946.52$

χ_{eff}^2 : CMB - lowLike: 2014.62 lensing: 9.97 lowl: -7.24 CamSpec: 7798.29 SN - Union2.1: 130.30

16.20 base_omegak_planck_lowl_lowLike_Union2_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02216	$0.02215^{+0.00058}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.524	< 0.795	$\Omega_m h^3$	0.09636	$0.0960^{+0.0045}_{-0.0045}$
$\Omega_c h^2$	0.1191	$0.1186^{+0.0052}_{-0.0051}$	γ^{CIB}	0.544	$0.53^{+0.25}_{-0.25}$	Y_{P}	0.247750	$0.24774^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04143	$1.0414^{+0.0013}_{-0.0012}$	c_{100}	1.00057	$1.00058^{+0.00075}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8357	$1.830^{+0.025}_{-0.025}$
τ	0.0937	$0.092^{+0.028}_{-0.025}$	c_{217}	0.99637	$0.9964^{+0.0026}_{-0.0026}$	Age/Gyr	13.776	$13.80^{+0.26}_{-0.25}$
Ω_K	0.0005	$0.0000^{+0.0065}_{-0.0066}$	$\xi^{\text{tSZ-CIB}}$	0.18	—	z_*	1090.21	$1090.2^{+1.1}_{-1.1}$
n_s	0.9653	$0.963^{+0.014}_{-0.014}$	A^{kSZ}	0.9	—	r_*	144.82	$145.0^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.0974	$3.091^{+0.051}_{-0.048}$	β_1^1	0.69	$0.5^{+1.0}_{-1.1}$	$100\theta_*$	1.04158	$1.0416^{+0.0012}_{-0.0012}$
A_{100}^{PS}	145	169^{+100}_{-100}	Ω_Λ	0.6918	$0.693^{+0.020}_{-0.020}$	z_{drag}	1059.47	$1059.4^{+1.2}_{-1.2}$
A_{143}^{PS}	63.4	53^{+30}_{-30}	Ω_m	0.3077	$0.307^{+0.021}_{-0.021}$	r_{drag}	147.56	$147.7^{+1.1}_{-1.2}$
A_{217}^{PS}	121.7	106^{+30}_{-30}	σ_8	0.8312	$0.826^{+0.027}_{-0.027}$	k_{D}	0.14011	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.40	$11.2^{+2.2}_{-2.1}$	$100\theta_{\text{D}}$	0.16127	$0.16131^{+0.00067}_{-0.00065}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	67.91	$67.9^{+2.0}_{-2.0}$	z_{eq}	3375	3363^{+120}_{-120}
A_{143}^{tSZ}	6.33	—	$10^9 A_s$	2.214	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8179	$0.820^{+0.023}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.913	> 0.728	$\Omega_m h^2$	0.14190	$0.1414^{+0.0049}_{-0.0049}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07190	$0.0719^{+0.0016}_{-0.0015}$

Best-fit $\chi_{\text{eff}}^2 = 9937.58$; R-1 = 0.02581

χ_{eff}^2 : BAO - DR7: 0.98 6DF: 0.02 DR9: 0.37 CMB - lowLike: 2014.40 lowl: -7.27 CamSpec: 7798.13 SN - Union2.1: 130.35

16.21 base_omegak_planck_lowl_lowLike_Union2_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02207^{+0.00058}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.465	< 0.803	$\Omega_m h^3$	0.0973	$0.1016^{+0.0072}_{-0.0071}$
$\Omega_c h^2$	0.1179	$0.1191^{+0.0056}_{-0.0053}$	γ^{CIB}	0.519	$0.54^{+0.23}_{-0.24}$	Y_P	0.247791	$0.24771^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04159	$1.0414^{+0.0012}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00075}_{-0.00080}$	$10^9 A_s e^{-2\tau}$	1.8280	$1.832^{+0.025}_{-0.026}$
τ	0.0975	$0.092^{+0.027}_{-0.024}$	c_{217}	0.99630	$0.9964^{+0.0028}_{-0.0027}$	Age/Gyr	13.691	$13.43^{+0.44}_{-0.42}$
Ω_K	0.0018	$0.0073^{+0.0089}_{-0.0090}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.98	$1090.3^{+1.1}_{-1.1}$
n_s	0.9668	$0.962^{+0.015}_{-0.014}$	A^{kSZ}	0.0	—	r_*	145.06	$144.9^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.1008	$3.092^{+0.049}_{-0.045}$	β_1^1	0.59	$0.5^{+1.2}_{-1.2}$	$100\theta_*$	1.04173	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	133	171^{+100}_{-100}	Ω_Λ	0.7038	$0.716^{+0.030}_{-0.031}$	z_{drag}	1059.59	$1059.3^{+1.2}_{-1.2}$
A_{143}^{PS}	51.8	54^{+30}_{-30}	Ω_m	0.2944	$0.277^{+0.037}_{-0.035}$	r_{drag}	147.77	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	116.3	106^{+30}_{-40}	σ_8	0.8293	$0.832^{+0.028}_{-0.028}$	k_D	0.13996	$0.1399^{+0.0013}_{-0.0013}$
A_{143}^{CIB}	3.39	—	z_{re}	11.67	$11.3^{+2.2}_{-2.0}$	$100\theta_D$	0.16120	$0.16139^{+0.00071}_{-0.00067}$
A_{217}^{CIB}	27	29^{+20}_{-10}	H_0	69.15	$71.6^{+4.5}_{-4.4}$	z_{eq}	3349	3373^{+120}_{-120}
A_{143}^{tSZ}	9.24	—	$10^9 A_s$	2.222	$2.20^{+0.11}_{-0.098}$	$100\theta_{\text{eq}}$	0.8232	$0.818^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.890	> 0.741	$\Omega_m h^2$	0.1408	$0.1418^{+0.0052}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07285	$0.0748^{+0.0036}_{-0.0034}$

Best-fit $\chi_{\text{eff}}^2 = 9940.75$; R-1 = 0.04114

χ_{eff}^2 : CMB - lowLike: 2014.55 lowl: -7.29 CamSpec: 7798.85 Hubble - HST: 3.77 SN - Union2.1: 130.06

16.22 base_omegak_planck_lowl_lowLike_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02205	$0.02208^{+0.00059}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.398	< 0.812	$\Omega_m h^3$	0.1021	$0.1015^{+0.0075}_{-0.0074}$
$\Omega_c h^2$	0.1193	$0.1191^{+0.0054}_{-0.0052}$	γ^{CIB}	0.533	$0.53^{+0.23}_{-0.25}$	Y_P	0.247704	$0.24772^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04135	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00076}$	$10^9 A_s e^{-2\tau}$	1.8319	$1.832^{+0.026}_{-0.025}$
τ	0.0797	$0.092^{+0.027}_{-0.025}$	c_{217}	0.99629	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.394	$13.43^{+0.47}_{-0.44}$
Ω_K	0.0082	$0.0071^{+0.0093}_{-0.0097}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.37	$1090.3^{+1.1}_{-1.1}$
n_s	0.9607	$0.962^{+0.015}_{-0.015}$	A^{kSZ}	4.78	—	r_*	144.83	$144.9^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.0673	$3.091^{+0.051}_{-0.048}$	β_1^1	0.57	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04151	$1.0416^{+0.0012}_{-0.0012}$
A_{100}^{PS}	146	171^{+100}_{-100}	Ω_Λ	0.7170	$0.715^{+0.032}_{-0.032}$	z_{drag}	1059.25	$1059.3^{+1.2}_{-1.2}$
A_{143}^{PS}	45	53^{+30}_{-30}	Ω_m	0.2748	$0.278^{+0.038}_{-0.037}$	r_{drag}	147.61	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	109.2	106^{+30}_{-30}	σ_8	0.8226	$0.831^{+0.028}_{-0.027}$	k_D	0.13997	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	5.66	—	z_{re}	10.24	$11.3^{+2.2}_{-2.2}$	$100\theta_D$	0.16140	$0.16139^{+0.00069}_{-0.00067}$
A_{217}^{CIB}	28.2	29^{+20}_{-10}	H_0	71.89	$71.6^{+4.6}_{-4.6}$	z_{eq}	3379	3373^{+120}_{-120}
A_{143}^{tSZ}	7.69	—	$10^9 A_s$	2.148	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8170	$0.818^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.892	> 0.732	$\Omega_m h^2$	0.1420	$0.1418^{+0.0051}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07500	$0.0748^{+0.0036}_{-0.0036}$

Best-fit $\chi_{\text{eff}}^2 = 9810.37$; R-1 = 0.01118

χ_{eff}^2 : CMB - lowLike: 2014.16 lowl: -6.32 CamSpec: 7801.18 Hubble - HST: 0.66

16.23 base_omegak_planck_lowl_lowLike_HST_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02213^{+0.00061}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.494	< 0.800	$\Omega_m h^3$	0.09729	$0.0974^{+0.0045}_{-0.0044}$
$\Omega_c h^2$	0.1187	$0.1190^{+0.0054}_{-0.0052}$	γ^{CIB}	0.535	$0.53^{+0.24}_{-0.26}$	Y_P	0.247773	$0.24774^{+0.00026}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04154	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00081}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8347	$1.832^{+0.025}_{-0.024}$
τ	0.0944	$0.092^{+0.027}_{-0.024}$	c_{217}	0.99647	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.708	$13.71^{+0.25}_{-0.24}$
Ω_K	0.0016	$0.0020^{+0.0062}_{-0.0063}$	$\xi^{\text{tSZ-CIB}}$	0.12	—	z_*	1090.11	$1090.2^{+1.1}_{-1.1}$
n_s	0.9668	$0.962^{+0.015}_{-0.015}$	A^{kSZ}	0.7	—	r_*	144.87	$144.9^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.0983	$3.091^{+0.052}_{-0.047}$	β_1^1	0.73	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04168	$1.0416^{+0.0012}_{-0.0013}$
A_{100}^{PS}	146	170^{+100}_{-100}	Ω_Λ	0.6985	$0.698^{+0.019}_{-0.020}$	z_{drag}	1059.55	$1059.4^{+1.2}_{-1.2}$
A_{143}^{PS}	62.4	53^{+30}_{-30}	Ω_m	0.2999	$0.300^{+0.020}_{-0.018}$	r_{drag}	147.59	$147.6^{+1.1}_{-1.1}$
A_{217}^{PS}	121.7	106^{+30}_{-30}	σ_8	0.8313	$0.828^{+0.028}_{-0.027}$	k_D	0.14012	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.44	$11.2^{+2.1}_{-2.1}$	$100\theta_D$	0.16122	$0.16132^{+0.00069}_{-0.00069}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	68.71	$68.7^{+1.9}_{-1.9}$	z_{eq}	3368	3371^{+120}_{-110}
A_{143}^{tSZ}	6.46	—	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8195	$0.819^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.900	> 0.727	$\Omega_m h^2$	0.14159	$0.1417^{+0.0050}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.07250	$0.0725^{+0.0015}_{-0.0014}$

Best-fit $\chi_{\text{eff}}^2 = 9812.39$; R-1 = 0.02221

χ_{eff}^2 : BAO - DR9: 1.26 DR7: 0.19 6DF: 0.10 CMB - lowLike: 2014.34 lowl: -7.39 CamSpec: 7798.71 Hubble - HST: 4.48

16.24 base_omegak_planck_lowl_lowLike_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02228^{+0.00060}_{-0.00059}$	$r_{143 \times 217}^{\text{CIB}}$	0.201	< 0.808	$\Omega_m h^3$	0.0959	$0.092^{+0.011}_{-0.010}$
$\Omega_c h^2$	0.1183	$0.1173^{+0.0053}_{-0.0052}$	γ^{CIB}	0.541	$0.53^{+0.24}_{-0.26}$	Y_P	0.247758	$0.24780^{+0.00026}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04149	$1.0416^{+0.0013}_{-0.0013}$	c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8317	$1.825^{+0.025}_{-0.024}$
τ	0.0956	$0.087^{+0.027}_{-0.025}$	c_{217}	0.99627	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.79	$14.07^{+0.75}_{-0.74}$
Ω_K	0.0000	$-0.007^{+0.018}_{-0.019}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.00	—	z_*	1090.12	$1089.9^{+1.1}_{-1.1}$
n_s	0.9666	$0.966^{+0.014}_{-0.015}$	A^{kSZ}	0.1	—	r_*	145.00	$145.2^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0991	$3.079^{+0.051}_{-0.048}$	β_1^1	0.60	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	150	166^{+100}_{-100}	Ω_Λ	0.6945	$0.679^{+0.048}_{-0.049}$	z_{drag}	1059.44	$1059.6^{+1.2}_{-1.2}$
A_{143}^{PS}	57.3	50^{+30}_{-30}	Ω_m	0.306	$0.328^{+0.066}_{-0.064}$	r_{drag}	147.74	$147.9^{+1.1}_{-1.1}$
A_{217}^{PS}	119.4	103^{+30}_{-30}	σ_8	0.8296	$0.813^{+0.032}_{-0.032}$	k_D	0.13993	$0.1398^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	2.91	—	z_{re}	11.54	$10.7^{+2.2}_{-2.2}$	$100\theta_D$	0.16128	$0.16119^{+0.00068}_{-0.00067}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	68.0	$65.6^{+6.9}_{-6.4}$	z_{eq}	3357	3334^{+120}_{-120}
A_{143}^{tSZ}	6.60	—	$10^9 A_s$	2.218	$2.17^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8213	$0.826^{+0.023}_{-0.023}$
$r_{143 \times 217}^{\text{PS}}$	0.893	> 0.725	$\Omega_m h^2$	0.14114	$0.1402^{+0.0049}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.0720	$0.0702^{+0.0052}_{-0.0048}$

Best-fit $\chi_{\text{eff}}^2 = 9815.51$; R-1 = 0.01058

χ_{eff}^2 : CMB - lensing: 10.07 lowLike: 2014.52 lowl: -7.48 CamSpec: 7797.77

16.25 base_omegak_planck_lowl_lowLike_lensing_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02228	$0.02224^{+0.00059}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.372	< 0.799	$\Omega_m h^3$	0.09599	$0.0955^{+0.0047}_{-0.0045}$
$\Omega_c h^2$	0.11762	$0.1178^{+0.0050}_{-0.0049}$	γ^{CIB}	0.526	$0.53^{+0.26}_{-0.26}$	Y_P	0.247799	$0.24778^{+0.00025}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04150	$1.0415^{+0.0012}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8279	$1.827^{+0.024}_{-0.024}$
τ	0.0973	$0.091^{+0.025}_{-0.023}$	c_{217}	0.99629	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.781	$13.82^{+0.27}_{-0.27}$
Ω_K	0.0000	$-0.0007^{+0.0066}_{-0.0067}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.93	$1090.0^{+1.1}_{-1.0}$
n_s	0.9681	$0.965^{+0.014}_{-0.014}$	A^{kSZ}	0.0	—	r_*	145.11	$145.1^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.1003	$3.087^{+0.046}_{-0.043}$	β_1^1	0.59	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	134	167^{+100}_{-100}	Ω_Λ	0.6988	$0.696^{+0.019}_{-0.019}$	z_{drag}	1059.63	$1059.6^{+1.2}_{-1.1}$
A_{143}^{PS}	52.3	51^{+30}_{-30}	Ω_m	0.3013	$0.305^{+0.020}_{-0.019}$	r_{drag}	147.82	$147.8^{+1.1}_{-1.1}$
A_{217}^{PS}	116.7	104^{+30}_{-30}	σ_8	0.8277	$0.822^{+0.022}_{-0.023}$	k_D	0.13992	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	2.94	—	z_{re}	11.63	$11.1^{+2.0}_{-2.0}$	$100\theta_D$	0.16117	$0.16122^{+0.00067}_{-0.00066}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	68.30	$67.9^{+2.0}_{-2.0}$	z_{eq}	3343	3346^{+110}_{-110}
A_{143}^{tSZ}	8.45	—	$10^9 A_s$	2.220	$2.19^{+0.10}_{-0.093}$	$100\theta_{\text{eq}}$	0.8243	$0.824^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.893	> 0.729	$\Omega_m h^2$	0.14054	$0.1407^{+0.0047}_{-0.0046}$	$r_{\text{drag}}/D_V(0.57)$	0.07220	$0.0719^{+0.0015}_{-0.0015}$

Best-fit $\chi_{\text{eff}}^2 = 9816.93$; R-1 = 0.02067

χ_{eff}^2 : BAO - DR9: 0.75 DR7: 0.47 6DF: 0.05 CMB - lensing: 9.59 lowLike: 2014.59 lowl: -7.68 CamSpec: 7798.41

16.26 base_omegak_planck_lowl_lowLike_lensing_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02219^{+0.00060}_{-0.00058}$	$r_{143 \times 217}^{\text{CIB}}$	0.383	< 0.814	$\Omega_m h^3$	0.0996	$0.1008^{+0.0069}_{-0.0070}$
$\Omega_c h^2$	0.1181	$0.1187^{+0.0049}_{-0.0051}$	γ^{CIB}	0.524	$0.53^{+0.26}_{-0.26}$	Y_P	0.247809	$0.24776^{+0.00026}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04161	$1.0415^{+0.0013}_{-0.0013}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8307	$1.831^{+0.023}_{-0.023}$
τ	0.0946	$0.095^{+0.026}_{-0.024}$	c_{217}	0.99633	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.543	$13.48^{+0.43}_{-0.40}$
Ω_K	0.0046	$0.0061^{+0.0087}_{-0.0092}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.00	—	z_*	1089.94	$1090.1^{+1.1}_{-1.1}$
n_s	0.9674	$0.964^{+0.015}_{-0.015}$	A^{kSZ}	0.0	—	r_*	144.97	$144.9^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0965	$3.097^{+0.047}_{-0.046}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04174	$1.0416^{+0.0013}_{-0.0012}$
A_{100}^{PS}	133	168^{+100}_{-100}	Ω_Λ	0.7128	$0.714^{+0.025}_{-0.027}$	z_{drag}	1059.70	$1059.5^{+1.2}_{-1.2}$
A_{143}^{PS}	53.7	52^{+30}_{-30}	Ω_m	0.2826	$0.280^{+0.033}_{-0.032}$	r_{drag}	147.67	$147.6^{+1.1}_{-1.0}$
A_{217}^{PS}	117.8	105^{+30}_{-30}	σ_8	0.8299	$0.833^{+0.025}_{-0.025}$	k_D	0.14010	$0.1400^{+0.0011}_{-0.0012}$
A_{143}^{CIB}	2.15	—	z_{re}	11.43	$11.5^{+2.0}_{-2.1}$	$100\theta_D$	0.16113	$0.16126^{+0.00069}_{-0.00069}$
A_{217}^{CIB}	26	29^{+20}_{-10}	H_0	70.64	$71.2^{+4.1}_{-4.0}$	z_{eq}	3354	3366^{+110}_{-110}
A_{143}^{tSZ}	8.70	—	$10^9 A_s$	2.212	$2.21^{+0.11}_{-0.099}$	$100\theta_{\text{eq}}$	0.8223	$0.820^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.891	> 0.728	$\Omega_m h^2$	0.14102	$0.1415^{+0.0046}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07396	$0.0745^{+0.0032}_{-0.0031}$

Best-fit $\chi_{\text{eff}}^2 = 9818.72$; R-1 = 0.03609

χ_{eff}^2 : CMB - lensing: 9.35 lowLike: 2014.13 lowl: -7.14 CamSpec: 7799.86 Hubble - HST: 1.76

16.27 base_omegak_planck_lowl_lowLike_lensing_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02225	$0.02226^{+0.00060}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.126	< 0.808	$\Omega_m h^3$	0.0969	$0.0973^{+0.010}_{-0.0097}$
$\Omega_c h^2$	0.1174	$0.1176^{+0.0051}_{-0.0052}$	γ^{CIB}	0.541	$0.53^{+0.26}_{-0.26}$	Y_P	0.247786	$0.24779^{+0.00025}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04154	$1.0416^{+0.0013}_{-0.0012}$	c_{100}	1.00060	$1.00060^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8260	$1.826^{+0.024}_{-0.024}$
τ	0.0977	$0.094^{+0.026}_{-0.025}$	c_{217}	0.99626	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.71	$13.70^{+0.64}_{-0.62}$
Ω_K	0.0013	$0.001^{+0.014}_{-0.014}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.95	$1090.0^{+1.1}_{-1.1}$
n_s	0.9673	$0.966^{+0.014}_{-0.015}$	A^{kSZ}	4.06	—	r_*	145.20	$145.1^{+1.2}_{-1.1}$
$\ln(10^{10} A_s)$	3.1002	$3.092^{+0.049}_{-0.047}$	β_1^1	0.54	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04168	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	144	167^{+100}_{-100}	Ω_Λ	0.7046	$0.704^{+0.035}_{-0.038}$	z_{drag}	1059.55	$1059.6^{+1.2}_{-1.2}$
A_{143}^{PS}	50.6	51^{+30}_{-30}	Ω_m	0.2941	$0.295^{+0.050}_{-0.049}$	r_{drag}	147.92	$147.8^{+1.1}_{-1.1}$
A_{217}^{PS}	114.0	104^{+30}_{-30}	σ_8	0.8274	$0.825^{+0.029}_{-0.030}$	k_D	0.13980	$0.1399^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	2.91	—	z_{re}	11.68	$11.3^{+2.1}_{-2.1}$	$100\theta_D$	0.16122	$0.16121^{+0.00069}_{-0.00068}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	69.1	$69.2^{+6.2}_{-5.7}$	z_{eq}	3336	3343^{+110}_{-120}
A_{143}^{tSZ}	6.07	—	$10^9 A_s$	2.220	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8254	$0.824^{+0.023}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.890	> 0.728	$\Omega_m h^2$	0.14027	$0.1405^{+0.0048}_{-0.0049}$	$r_{\text{drag}}/D_V(0.57)$	0.07281	$0.0729^{+0.0048}_{-0.0044}$

Best-fit $\chi^2_{\text{eff}} = 10244.41$; R-1 = 0.01627

χ^2_{eff} : CMB - lensing: 9.28 lowLike: 2014.56 lowl: -7.41 CamSpec: 7799.26 SN - SNLS: 428.10

16.28 base_omegak_planck_lowl_lowLike_highL_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02233	$0.02231^{+0.00055}_{-0.00055}$	β_1^1	0.33	$0.3^{+1.1}_{-1.1}$	σ_8	0.8202	$0.809^{+0.031}_{-0.031}$
$\Omega_c h^2$	0.1168	$0.1170^{+0.0051}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.54	$10.7^{+1.2}_{-1.1}$	z_{re}	11.67	$10.6^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04167	$1.0416^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	65.7	$64.6^{+6.5}_{-6.3}$
τ	0.0986	$0.087^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.77	$7.95^{+3.0}_{-2.9}$	$10^9 A_s$	2.218	$2.17^{+0.11}_{-0.099}$
Ω_K	-0.0064	$-0.0096^{+0.018}_{-0.019}$	$A_{150}^{\text{PS, SPT}}$	10.10	$10.3^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.13975	$0.1399^{+0.0048}_{-0.0046}$
n_s	0.9663	$0.965^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	73.7	75^{+9}_{-9}	$\Omega_m h^3$	0.0919	$0.090^{+0.011}_{-0.010}$
$\ln(10^{10} A_s)$	3.0991	$3.075^{+0.050}_{-0.046}$	$r_{95 \times 150}^{\text{PS}}$	0.789	> 0.686	Y_P	0.247824	$0.24781^{+0.00023}_{-0.00024}$
A_{100}^{PS}	202	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.534	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8209	$1.822^{+0.024}_{-0.023}$
A_{143}^{PS}	71.5	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9071	$0.933^{+0.047}_{-0.044}$	Age/Gyr	14.06	$14.19^{+0.76}_{-0.72}$
A_{217}^{PS}	58.7	57^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.423	$0.43^{+0.36}_{-0.39}$	z_*	1089.78	$1089.8^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.13	$3.25^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.840	$0.84^{+0.38}_{-0.38}$	r_*	145.29	$145.3^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.3	50^{+10}_{-10}	y_{148}^{ACTs}	0.9923	$0.993^{+0.015}_{-0.014}$	$100\theta_*$	1.04181	$1.0418^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.41	< 4.92	y_{217}^{ACTs}	1.0046	$1.007^{+0.026}_{-0.026}$	z_{drag}	1059.70	$1059.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.814	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9887	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.99	$148.0^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9630	$0.965^{+0.021}_{-0.020}$	k_D	0.13980	$0.1398^{+0.0011}_{-0.0011}$
γ^{CIB}	0.659	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9863	$0.986^{+0.039}_{-0.037}$	$100\theta_D$	0.16114	$0.16117^{+0.00063}_{-0.00061}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9875	$0.990^{+0.019}_{-0.019}$	z_{eq}	3324	3329^{+110}_{-110}
c_{217}	0.99727	$0.9973^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0195	$1.027^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8281	$0.827^{+0.022}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.820	Ω_Λ	0.6830	$0.672^{+0.048}_{-0.050}$	$r_{\text{drag}}/D_V(0.57)$	0.07024	$0.0694^{+0.0050}_{-0.0047}$
A^{kSZ}	1.18	$4.57^{+3.6}_{-4.4}$	Ω_m	0.323	$0.338^{+0.067}_{-0.064}$			

Best-fit $\chi^2_{\text{eff}} = 10517.04$; R-1 = 0.00967

χ^2_{eff} : CMB - lowLike: 2015.07 lensing: 10.19 lowl: -7.97 CamSpec: 7809.20 highL: 690.45

16.29 base_omegak_planck_lowl_lowLike_highL_lensing_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02219	$0.02225^{+0.00055}_{-0.00051}$	β_1^1	0.41	$0.3^{+1.1}_{-1.1}$	σ_8	0.8296	$0.821^{+0.022}_{-0.022}$
$\Omega_c h^2$	0.11871	$0.1177^{+0.0047}_{-0.0047}$	$A_{148}^{\text{PS, ACT}}$	10.49	$10.7^{+1.2}_{-1.1}$	z_{re}	11.59	$11.1^{+2.0}_{-1.9}$
$100\theta_{\text{MC}}$	1.04140	$1.0416^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.5	77^{+9}_{-9}	H_0	68.22	$67.8^{+2.0}_{-2.0}$
τ	0.0961	$0.091^{+0.025}_{-0.023}$	$A_{95}^{\text{PS, SPT}}$	7.71	$7.94^{+3.1}_{-3.0}$	$10^9 A_s$	2.217	$2.19^{+0.10}_{-0.096}$
Ω_K	0.0008	$-0.00099^{+0.0062}_{-0.0065}$	$A_{150}^{\text{PS, SPT}}$	10.04	$10.2^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14154	$0.1406^{+0.0044}_{-0.0044}$
n_s	0.9619	$0.963^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	73.5	75^{+9}_{-9}	$\Omega_m h^3$	0.09655	$0.0954^{+0.0044}_{-0.0043}$
$\ln(10^{10} A_s)$	3.0987	$3.086^{+0.046}_{-0.041}$	$r_{95 \times 150}^{\text{PS}}$	0.786	> 0.684	Y_P	0.247764	$0.24779^{+0.00023}_{-0.00022}$
A_{100}^{PS}	205	213^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.531	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8292	$1.825^{+0.022}_{-0.022}$
A_{143}^{PS}	72.6	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9080	$0.934^{+0.047}_{-0.044}$	Age/Gyr	13.757	$13.83^{+0.26}_{-0.25}$
A_{217}^{PS}	60.0	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.424	$0.43^{+0.35}_{-0.40}$	z_*	1090.13	$1089.98^{+0.99}_{-0.95}$
A_{143}^{CIB}	3.09	$3.24^{+1.6}_{-1.7}$	$A_{\text{dust}}^{\text{ACTe}}$	0.841	$0.84^{+0.40}_{-0.36}$	r_*	144.89	$145.1^{+1.1}_{-1.0}$
A_{217}^{CIB}	52.1	50^{+10}_{-10}	y_{148}^{ACTs}	0.9918	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04154	$1.0417^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.36	< 4.91	y_{217}^{ACTs}	1.0038	$1.007^{+0.027}_{-0.025}$	z_{drag}	1059.51	$1059.6^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.815	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9881	$0.989^{+0.014}_{-0.013}$	r_{drag}	147.62	$147.8^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9622	$0.965^{+0.021}_{-0.020}$	k_D	0.14007	$0.1399^{+0.0011}_{-0.0011}$
γ^{CIB}	0.658	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9849	$0.986^{+0.038}_{-0.036}$	$100\theta_D$	0.16123	$0.16121^{+0.00061}_{-0.00062}$
c_{100}	1.00059	$1.00060^{+0.00079}_{-0.00077}$	y_{150}^{SPT}	0.9861	$0.990^{+0.019}_{-0.019}$	z_{eq}	3367	3345^{+110}_{-110}
c_{217}	0.99733	$0.9973^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0188	$1.026^{+0.048}_{-0.043}$	$100\theta_{\text{eq}}$	0.8196	$0.824^{+0.021}_{-0.020}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.818	Ω_Λ	0.6950	$0.695^{+0.018}_{-0.018}$	$r_{\text{drag}}/D_V(0.57)$	0.07214	$0.0718^{+0.0015}_{-0.0015}$
A^{kSZ}	1.39	< 8.01	Ω_m	0.3042	$0.306^{+0.019}_{-0.018}$			

Best-fit $\chi_{\text{eff}}^2 = 10519.00$; R-1 = 0.02876

χ_{eff}^2 : BAO - DR7: 0.59 DR9: 0.66 6DF: 0.04 CMB - lowLike: 2014.56 lensing: 9.74 lowl: -6.52 CamSpec: 7808.60 highL: 691.22

16.30 base_omegak_planck_lowl_lowLike_highL_lensing_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02219^{+0.00054}_{-0.00055}$	β_1	0.49	$0.4^{+1.0}_{-1.1}$	σ_8	0.8334	$0.830^{+0.024}_{-0.025}$
$\Omega_c h^2$	0.11905	$0.1186^{+0.0050}_{-0.0048}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.6^{+1.2}_{-1.2}$	z_{re}	11.56	$11.5^{+2.1}_{-2.0}$
$100\theta_{\text{MC}}$	1.04146	$1.0415^{+0.0012}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	76.1	$76.7^{+8.0}_{-8.8}$	H_0	71.03	$70.7^{+4.0}_{-3.9}$
τ	0.0954	$0.095^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.41	$7.74^{+3.0}_{-2.9}$	$10^9 A_s$	2.216	$2.21^{+0.11}_{-0.099}$
Ω_K	0.0062	$0.0052^{+0.0089}_{-0.0094}$	$A_{150}^{\text{PS, SPT}}$	9.94	$10.18^{+0.98}_{-1.0}$	$\Omega_m h^2$	0.14190	$0.1415^{+0.0047}_{-0.0045}$
n_s	0.9614	$0.962^{+0.013}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	72.8	75^{+9}_{-9}	$\Omega_m h^3$	0.1008	$0.1001^{+0.0077}_{-0.0068}$
$\ln(10^{10} A_s)$	3.0985	$3.095^{+0.050}_{-0.046}$	$r_{95 \times 150}^{\text{PS}}$	0.807	> 0.696	Y_P	0.247768	$0.24776^{+0.00023}_{-0.00024}$
A_{100}^{PS}	207	214^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.558	$0.59^{+0.22}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8316	$1.829^{+0.023}_{-0.024}$
A_{143}^{PS}	72.3	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9083	$0.935^{+0.048}_{-0.045}$	Age/Gyr	13.480	$13.52^{+0.43}_{-0.43}$
A_{217}^{PS}	60.1	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.44^{+0.36}_{-0.42}$	z_*	1090.15	$1090.1^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.31	$3.30^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.834	$0.85^{+0.38}_{-0.40}$	r_*	144.79	$144.9^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.8	50^{+10}_{-10}	y_{148}^{ACTs}	0.9920	$0.993^{+0.015}_{-0.014}$	$100\theta_*$	1.04160	$1.0416^{+0.0012}_{-0.0011}$
A_{143}^{tSZ}	4.83	< 5.15	y_{217}^{ACTs}	1.0028	$1.006^{+0.026}_{-0.026}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.83^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9882	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.52	$147.7^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.845	y_{217}^{ACTe}	0.9613	$0.965^{+0.021}_{-0.021}$	k_D	0.14018	$0.1400^{+0.0011}_{-0.0011}$
γ^{CIB}	0.664	$0.64^{+0.16}_{-0.15}$	y_{95}^{SPT}	0.9853	$0.985^{+0.038}_{-0.036}$	$100\theta_D$	0.16122	$0.16127^{+0.00065}_{-0.00060}$
c_{100}	1.00059	$1.00059^{+0.00081}_{-0.00082}$	y_{150}^{SPT}	0.9857	$0.989^{+0.020}_{-0.019}$	z_{eq}	3375	3365^{+110}_{-110}
c_{217}	0.99738	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0165	$1.026^{+0.048}_{-0.047}$	$100\theta_{\text{eq}}$	0.8181	$0.820^{+0.021}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.848	Ω_Λ	0.7125	$0.711^{+0.026}_{-0.026}$	$r_{\text{drag}}/D_V(0.57)$	0.07427	$0.0741^{+0.0031}_{-0.0030}$
A^{kSZ}	0.86	$4.81^{+3.7}_{-4.6}$	Ω_m	0.2813	$0.283^{+0.032}_{-0.032}$			

Best-fit $\chi_{\text{eff}}^2 = 10521.09$; R-1 = 0.08177

χ_{eff}^2 : CMB - lowLike: 2014.20 lensing: 9.44 lowl: -5.68 CamSpec: 7809.57 highL: 692.12 Hubble - HST: 1.36

16.31 base_omegak_planck_lowl_lowLike_highL_lensing_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02227^{+0.00056}_{-0.00054}$	β_1	0.42	$0.3^{+1.1}_{-1.1}$	σ_8	0.8292	$0.821^{+0.029}_{-0.029}$
$\Omega_c h^2$	0.1180	$0.1174^{+0.0050}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.49	$10.7^{+1.2}_{-1.1}$	z_{re}	11.65	$11.2^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04159	$1.0416^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.5	$76.9^{+8.4}_{-9.1}$	H_0	69.7	$68.2^{+6.0}_{-5.5}$
τ	0.0972	$0.093^{+0.027}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.69	$7.86^{+3.0}_{-2.9}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.11}$
Ω_K	0.0029	$-0.001^{+0.013}_{-0.015}$	$A_{150}^{\text{PS, SPT}}$	10.03	$10.2^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14094	$0.1403^{+0.0047}_{-0.0047}$
n_s	0.9637	$0.964^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	73.5	75^{+8}_{-9}	$\Omega_m h^3$	0.0982	$0.0958^{+0.010}_{-0.0099}$
$\ln(10^{10} A_s)$	3.0996	$3.089^{+0.051}_{-0.046}$	$r_{95 \times 150}^{\text{PS}}$	0.787	> 0.690	Y_P	0.247791	$0.24780^{+0.00024}_{-0.00023}$
A_{100}^{PS}	204	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.533	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8270	$1.823^{+0.024}_{-0.023}$
A_{143}^{PS}	71.9	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9083	$0.934^{+0.048}_{-0.043}$	Age/Gyr	13.64	$13.80^{+0.63}_{-0.63}$
A_{217}^{PS}	59.5	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.425	$0.43^{+0.36}_{-0.40}$	z_*	1089.99	$1089.9^{+1.0}_{-1.0}$
A_{143}^{CIB}	3.10	$3.27^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.842	$0.84^{+0.38}_{-0.38}$	r_*	145.02	$145.2^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.2	50^{+10}_{-10}	y_{148}^{ACTs}	0.9922	$0.993^{+0.014}_{-0.014}$	$100\theta_*$	1.04173	$1.0418^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.40	< 5.01	y_{217}^{ACTs}	1.0041	$1.007^{+0.027}_{-0.025}$	z_{drag}	1059.59	$1059.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.814	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9885	$0.990^{+0.014}_{-0.014}$	r_{drag}	147.73	$147.9^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9626	$0.965^{+0.021}_{-0.021}$	k_D	0.14000	$0.1399^{+0.0011}_{-0.0011}$
γ^{CIB}	0.659	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9855	$0.986^{+0.039}_{-0.036}$	$100\theta_D$	0.16119	$0.16120^{+0.00064}_{-0.00062}$
c_{100}	1.00059	$1.00060^{+0.00079}_{-0.00080}$	y_{150}^{SPT}	0.9865	$0.990^{+0.019}_{-0.018}$	z_{eq}	3352	3338^{+110}_{-110}
c_{217}	0.99736	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0185	$1.027^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8225	$0.825^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.830	Ω_Λ	0.7068	$0.698^{+0.035}_{-0.038}$	$r_{\text{drag}}/D_V(0.57)$	0.07324	$0.0722^{+0.0047}_{-0.0042}$
A^{kSZ}	1.42	$4.69^{+3.7}_{-4.5}$	Ω_m	0.2904	$0.303^{+0.050}_{-0.046}$			

Best-fit $\chi_{\text{eff}}^2 = 10946.38$; R-1 = 0.02507

χ_{eff}^2 : CMB - lowLike: 2014.47 lensing: 9.27 lowl: -6.58 CamSpec: 7809.82 highL: 691.45 SN - SNLS: 427.85

17 r

17.1 base_r_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02205	$0.02207^{+0.00056}_{-0.00054}$	γ^{CIB}	0.525	$0.53^{+0.23}_{-0.25}$	Y_P	0.247702	$0.24771^{+0.00024}_{-0.00024}$
$\Omega_c h^2$	0.1207	$0.1193^{+0.0053}_{-0.0052}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8434	$1.833^{+0.026}_{-0.025}$
$100\theta_{\text{MC}}$	1.04120	$1.0414^{+0.0013}_{-0.0013}$	c_{217}	0.99646	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.824	$13.810^{+0.094}_{-0.096}$
τ	0.0926	$0.089^{+0.026}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.49	$1090.3^{+1.1}_{-1.0}$
n_s	0.9618	$0.962^{+0.015}_{-0.014}$	A^{kSZ}	0.5	—	r_*	144.48	$144.8^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.0993	$3.087^{+0.050}_{-0.047}$	β_1^1	0.71	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04136	$1.0415^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.127	Ω_Λ	0.6800	$0.688^{+0.031}_{-0.034}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.1}$
A_{100}^{PS}	152	169^{+100}_{-100}	Ω_m	0.3200	$0.312^{+0.034}_{-0.031}$	r_{drag}	147.25	$147.6^{+1.2}_{-1.2}$
A_{143}^{PS}	65.7	53^{+30}_{-30}	σ_8	0.8363	$0.827^{+0.025}_{-0.024}$	k_D	0.14034	$0.1400^{+0.0012}_{-0.0012}$
A_{217}^{PS}	124.0	107^{+30}_{-30}	z_{re}	11.38	$11.0^{+2.2}_{-2.2}$	$100\theta_D$	0.16134	$0.16138^{+0.00066}_{-0.00064}$
A_{143}^{CIB}	0.0	—	H_0	66.94	$67.5^{+2.4}_{-2.3}$	z_{eq}	3411	3379^{+120}_{-120}
A_{217}^{CIB}	24	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.120	$100\theta_{\text{eq}}$	0.8110	$0.817^{+0.023}_{-0.022}$
A_{143}^{tSZ}	6.02	—	$10^9 A_s$	2.218	$2.19^{+0.11}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07117	$0.0716^{+0.0018}_{-0.0018}$
$r_{143 \times 217}^{\text{PS}}$	0.899	> 0.737	$\Omega_m h^2$	0.14341	$0.1420^{+0.0050}_{-0.0049}$			
$r_{143 \times 217}^{\text{CIB}}$	0.752	< 0.802	$\Omega_m h^3$	0.09600	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9805.75$; R-1 = 0.00593

χ_{eff}^2 : CMB - lowLike: 2014.49 lowl: -6.67 CamSpec: 7797.16

17.2 base_r_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02219^{+0.00054}_{-0.00053}$	γ^{CIB}	0.551	$0.53^{+0.23}_{-0.25}$	Y_P	0.247778	$0.24776^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11830	$0.1181^{+0.0042}_{-0.0043}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8327	$1.828^{+0.021}_{-0.021}$
$100\theta_{\text{MC}}$	1.04148	$1.0415^{+0.0012}_{-0.0012}$	c_{217}	0.99641	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.787	$13.790^{+0.087}_{-0.088}$
τ	0.0957	$0.090^{+0.026}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.05	$1090.09^{+0.92}_{-0.93}$
n_s	0.9669	$0.965^{+0.014}_{-0.013}$	A^{kSZ}	0.7	—	r_*	144.97	$145.05^{+0.97}_{-0.96}$
$\ln(10^{10} A_s)$	3.0998	$3.085^{+0.047}_{-0.044}$	β_1^1	0.62	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04162	$1.0416^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.132	Ω_Λ	0.6950	$0.695^{+0.025}_{-0.027}$	z_{drag}	1059.55	$1059.5^{+1.1}_{-1.1}$
A_{100}^{PS}	151	167^{+100}_{-100}	Ω_m	0.3050	$0.305^{+0.027}_{-0.025}$	r_{drag}	147.70	$147.78^{+0.98}_{-0.97}$
A_{143}^{PS}	64.0	51^{+30}_{-30}	σ_8	0.8300	$0.822^{+0.019}_{-0.019}$	k_D	0.14002	$0.1399^{+0.0011}_{-0.0011}$
A_{217}^{PS}	117.7	105^{+30}_{-30}	z_{re}	11.53	$11.0^{+2.1}_{-2.1}$	$100\theta_D$	0.16121	$0.16127^{+0.00064}_{-0.00063}$
A_{143}^{CIB}	0.0	—	H_0	68.03	$68.1^{+2.0}_{-2.0}$	z_{eq}	3358	3353^{+96}_{-96}
A_{217}^{CIB}	26	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.126	$100\theta_{\text{eq}}$	0.8213	$0.822^{+0.019}_{-0.018}$
A_{143}^{tSZ}	6.08	—	$10^9 A_s$	2.219	$2.19^{+0.10}_{-0.094}$	$r_{\text{drag}}/D_V(0.57)$	0.07199	$0.0721^{+0.0015}_{-0.0015}$
$r_{143 \times 217}^{\text{PS}}$	0.878	> 0.729	$\Omega_m h^2$	0.14117	$0.1410^{+0.0040}_{-0.0040}$			
$r_{143 \times 217}^{\text{CIB}}$	0.777	< 0.802	$\Omega_m h^3$	0.09604	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9815.88$; R-1 = 0.00759

χ_{eff}^2 : CMB - lowLike: 2014.52 lensing: 9.89 lowl: -7.51 CamSpec: 7798.43

17.3 base_r_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022165	$0.02212^{+0.00049}_{-0.00048}$	γ^{CIB}	0.541	$0.53^{+0.23}_{-0.25}$	Y_{P}	0.247752	$0.24773^{+0.00021}_{-0.00021}$
$\Omega_c h^2$	0.11882	$0.1185^{+0.0034}_{-0.0034}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8352	$1.829^{+0.019}_{-0.019}$
$100\theta_{\text{MC}}$	1.04145	$1.0415^{+0.0011}_{-0.0011}$	c_{217}	0.99636	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.797	$13.798^{+0.074}_{-0.075}$
τ	0.0952	$0.091^{+0.026}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.18	$1090.20^{+0.78}_{-0.77}$
n_s	0.9661	$0.964^{+0.012}_{-0.012}$	A^{kSZ}	0.0	—	r_*	144.88	$145.00^{+0.84}_{-0.83}$
$\ln(10^{10} A_s)$	3.1002	$3.088^{+0.050}_{-0.047}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04160	$1.0416^{+0.0011}_{-0.0011}$
$r_{0.05}$	0.000	< 0.129	Ω_Λ	0.6918	$0.693^{+0.020}_{-0.021}$	z_{drag}	1059.44	$1059.3^{+1.1}_{-1.1}$
A_{100}^{PS}	146	168^{+100}_{-100}	Ω_{m}	0.3082	$0.307^{+0.021}_{-0.020}$	r_{drag}	147.63	$147.76^{+0.89}_{-0.88}$
A_{143}^{PS}	61.8	53^{+30}_{-30}	σ_8	0.8313	$0.825^{+0.023}_{-0.022}$	k_{D}	0.14004	$0.1399^{+0.0011}_{-0.0011}$
A_{217}^{PS}	123.7	107^{+30}_{-30}	z_{re}	11.52	$11.1^{+2.1}_{-2.1}$	$100\theta_{\text{D}}$	0.16127	$0.16135^{+0.00063}_{-0.00062}$
A_{143}^{CIB}	0.9	—	H_0	67.79	$67.9^{+1.5}_{-1.5}$	z_{eq}	3369	3360^{+79}_{-77}
A_{217}^{CIB}	24	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.122	$100\theta_{\text{eq}}$	0.8191	$0.821^{+0.015}_{-0.015}$
A_{143}^{tSZ}	6.62	—	$10^9 A_s$	2.220	$2.19^{+0.11}_{-0.10}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07182	$0.0719^{+0.0012}_{-0.0011}$
$r_{143 \times 217}^{\text{PS}}$	0.894	> 0.736	$\Omega_{\text{m}} h^2$	0.14163	$0.1413^{+0.0033}_{-0.0032}$			
$r_{143 \times 217}^{\text{CIB}}$	0.000	< 0.800	$\Omega_{\text{m}} h^3$	0.09600	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9807.15$; R-1 = 0.00665

χ_{eff}^2 : BAO - DR9: 0.29 DR7: 1.12 6DF: 0.01 CMB - lowLike: 2014.53 lowl: -7.41 CamSpec: 7797.97

17.4 base_r_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02228^{+0.00054}_{-0.00053}$	γ^{CIB}	0.547	$0.53^{+0.23}_{-0.25}$	Y_P	0.247809	$0.24780^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11721	$0.1167^{+0.0047}_{-0.0045}$	c_{100}	1.00060	$1.00060^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8283	$1.821^{+0.024}_{-0.024}$
$100\theta_{\text{MC}}$	1.04174	$1.0418^{+0.0012}_{-0.0012}$	c_{217}	0.99645	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.768	$13.766^{+0.088}_{-0.090}$
τ	0.0973	$0.094^{+0.027}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.15	—	z_*	1089.87	$1089.85^{+0.95}_{-0.94}$
n_s	0.9696	$0.969^{+0.014}_{-0.014}$	A^{kSZ}	0.6	—	r_*	145.20	$145.4^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.101	$3.090^{+0.053}_{-0.049}$	β_1^1	0.61	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04188	$1.0419^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.139	Ω_Λ	0.7019	$0.704^{+0.026}_{-0.028}$	z_{drag}	1059.63	$1059.6^{+1.1}_{-1.1}$
A_{100}^{PS}	153	165^{+100}_{-100}	Ω_m	0.2981	$0.296^{+0.028}_{-0.026}$	r_{drag}	147.91	$148.1^{+1.1}_{-1.1}$
A_{143}^{PS}	65.2	52^{+30}_{-30}	σ_8	0.8265	$0.820^{+0.025}_{-0.024}$	k_D	0.13985	$0.1397^{+0.0012}_{-0.0012}$
A_{217}^{PS}	119.7	106^{+30}_{-30}	z_{re}	11.61	$11.3^{+2.2}_{-2.2}$	$100\theta_D$	0.16118	$0.16124^{+0.00064}_{-0.00063}$
A_{143}^{CIB}	0.0	—	H_0	68.57	$68.8^{+2.1}_{-2.1}$	z_{eq}	3333	3321^{+110}_{-100}
A_{217}^{CIB}	25	28^{+20}_{-10}	$r_{0.002}$	0.000	< 0.135	$100\theta_{\text{eq}}$	0.8262	$0.829^{+0.021}_{-0.020}$
A_{143}^{tSZ}	5.65	—	$10^9 A_s$	2.221	$2.20^{+0.12}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07241	$0.0726^{+0.0016}_{-0.0016}$
$r_{143 \times 217}^{\text{PS}}$	0.899	> 0.733	$\Omega_m h^2$	0.14015	$0.1396^{+0.0045}_{-0.0043}$			
$r_{143 \times 217}^{\text{CIB}}$	0.533	< 0.793	$\Omega_m h^3$	0.09610	$0.0960^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9811.69$; R-1 = 0.01093

χ_{eff}^2 : CMB - lowLike: 2014.54 lowl: -7.89 CamSpec: 7799.69 Hubble - HST: 4.76

17.5 base_r_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02219^{+0.00055}_{-0.00053}$	γ^{CIB}	0.538	$0.53^{+0.23}_{-0.26}$	Y_P	0.247771	$0.24776^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11822	$0.1176^{+0.0049}_{-0.0047}$	c_{100}	1.00061	$1.00059^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8321	$1.825^{+0.024}_{-0.023}$
$100\theta_{\text{MC}}$	1.04149	$1.0416^{+0.0013}_{-0.0012}$	c_{217}	0.99642	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.788	$13.784^{+0.091}_{-0.092}$
τ	0.0956	$0.092^{+0.027}_{-0.025}$	$\xi^{\text{tSZ-CIB}}$	0.19	—	z_*	1090.07	$1090.04^{+0.98}_{-0.98}$
n_s	0.9671	$0.966^{+0.014}_{-0.014}$	A^{kSZ}	0.5	—	r_*	145.01	$145.2^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.099	$3.089^{+0.052}_{-0.048}$	β_1^1	0.60	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04164	$1.0417^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.135	Ω_Λ	0.6954	$0.699^{+0.029}_{-0.030}$	z_{drag}	1059.51	$1059.4^{+1.1}_{-1.1}$
A_{100}^{PS}	149	167^{+100}_{-100}	Ω_m	0.3046	$0.301^{+0.030}_{-0.029}$	r_{drag}	147.74	$147.9^{+1.1}_{-1.1}$
A_{143}^{PS}	64.9	52^{+30}_{-30}	σ_8	0.8289	$0.822^{+0.025}_{-0.024}$	k_D	0.13996	$0.1398^{+0.0012}_{-0.0012}$
A_{217}^{PS}	122.1	106^{+30}_{-30}	z_{re}	11.52	$11.2^{+2.2}_{-2.1}$	$100\theta_D$	0.16124	$0.16131^{+0.00065}_{-0.00064}$
A_{143}^{CIB}	0.0	—	H_0	68.05	$68.3^{+2.2}_{-2.2}$	z_{eq}	3356	3340^{+110}_{-110}
A_{217}^{CIB}	24	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.129	$100\theta_{\text{eq}}$	0.8217	$0.825^{+0.021}_{-0.021}$
A_{143}^{tSZ}	5.92	—	$10^9 A_s$	2.218	$2.20^{+0.12}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07202	$0.0722^{+0.0017}_{-0.0017}$
$r_{143 \times 217}^{\text{PS}}$	0.909	> 0.734	$\Omega_m h^2$	0.14107	$0.1404^{+0.0046}_{-0.0044}$			
$r_{143 \times 217}^{\text{CIB}}$	0.500	< 0.797	$\Omega_m h^3$	0.09600	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 10235.07$; R-1 = 0.00824

χ_{eff}^2 : CMB - lowLike: 2014.50 lowl: -7.59 CamSpec: 7798.58 SN - SNLS: 428.92

17.6 base_r_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02211^{+0.00055}_{-0.00054}$	γ^{CIB}	0.541	$0.53^{+0.23}_{-0.25}$	Y_P	0.247744	$0.24773^{+0.00024}_{-0.00023}$
$\Omega_c h^2$	0.11927	$0.1187^{+0.0050}_{-0.0049}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8374	$1.830^{+0.024}_{-0.024}$
$100\theta_{\text{MC}}$	1.04140	$1.0414^{+0.0012}_{-0.0012}$	c_{217}	0.99642	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.802	$13.801^{+0.091}_{-0.093}$
τ	0.0947	$0.090^{+0.026}_{-0.024}$	$\xi^{\text{tSZ-CIB}}$	0.27	—	z_*	1090.24	$1090.2^{+1.0}_{-1.0}$
n_s	0.9650	$0.964^{+0.014}_{-0.014}$	A^{kSZ}	0.6	—	r_*	144.78	$144.9^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.1003	$3.087^{+0.050}_{-0.047}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04155	$1.0416^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.129	Ω_Λ	0.6890	$0.692^{+0.029}_{-0.031}$	z_{drag}	1059.44	$1059.3^{+1.1}_{-1.1}$
A_{100}^{PS}	148	168^{+100}_{-100}	Ω_m	0.3110	$0.308^{+0.031}_{-0.029}$	r_{drag}	147.53	$147.7^{+1.1}_{-1.1}$
A_{143}^{PS}	63.9	53^{+30}_{-30}	σ_8	0.8326	$0.825^{+0.024}_{-0.024}$	k_D	0.14013	$0.1399^{+0.0012}_{-0.0012}$
A_{217}^{PS}	123.2	107^{+30}_{-30}	z_{re}	11.49	$11.1^{+2.1}_{-2.1}$	$100\theta_D$	0.16128	$0.16136^{+0.00066}_{-0.00064}$
A_{143}^{CIB}	0.0	—	H_0	67.59	$67.8^{+2.3}_{-2.2}$	z_{eq}	3379	3366^{+110}_{-110}
A_{217}^{CIB}	24	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.122	$100\theta_{\text{eq}}$	0.8172	$0.820^{+0.022}_{-0.021}$
A_{143}^{tSZ}	6.13	—	$10^9 A_s$	2.220	$2.19^{+0.11}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07166	$0.0718^{+0.0017}_{-0.0017}$
$r_{143 \times 217}^{\text{PS}}$	0.928	> 0.736	$\Omega_m h^2$	0.14206	$0.1415^{+0.0047}_{-0.0046}$			
$r_{143 \times 217}^{\text{CIB}}$	0.407	< 0.800	$\Omega_m h^3$	0.09602	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 9936.20$; R-1 = 0.00652

χ_{eff}^2 : CMB - lowLike: 2014.53 lowl: -7.22 CamSpec: 7797.82 SN - Union2.1: 130.44

17.7 base_r_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02207	$0.02210^{+0.00053}_{-0.00052}$	β_1^1	0.42	$0.4^{+1.1}_{-1.1}$	σ_8	0.8308	$0.826^{+0.024}_{-0.024}$
$\Omega_c h^2$	0.1198	$0.1194^{+0.0052}_{-0.0051}$	$A_{148}^{\text{PS, ACT}}$	10.38	$10.5^{+1.2}_{-1.1}$	z_{re}	11.43	$11.1^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04127	$1.0414^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	67.30	$67.5^{+2.3}_{-2.3}$
τ	0.0935	$0.090^{+0.027}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.46	$7.64^{+3.0}_{-2.8}$	$r_{0.002}$	0.000	< 0.108
n_s	0.9590	$0.960^{+0.014}_{-0.014}$	$A_{150}^{\text{PS, SPT}}$	9.90	$10.07^{+0.99}_{-0.99}$	$10^9 A_s$	2.210	$2.19^{+0.11}_{-0.11}$
$\ln(10^{10} A_s)$	3.0957	$3.087^{+0.050}_{-0.046}$	$A_{220}^{\text{PS, SPT}}$	73.5	74^{+9}_{-9}	$\Omega_m h^2$	0.14252	$0.1421^{+0.0049}_{-0.0048}$
$r_{0.05}$	0.000	< 0.117	$r_{95 \times 150}^{\text{PS}}$	0.788	> 0.681	$\Omega_m h^3$	0.09592	$0.0959^{+0.0011}_{-0.0011}$
A_{100}^{PS}	206	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.546	$0.59^{+0.24}_{-0.23}$	Y_{P}	0.247712	$0.24772^{+0.00023}_{-0.00023}$
A_{143}^{PS}	72.8	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9149	$0.937^{+0.047}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8333	$1.831^{+0.025}_{-0.025}$
A_{217}^{PS}	60.7	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.44^{+0.36}_{-0.39}$	Age/Gyr	13.816	$13.808^{+0.091}_{-0.093}$
A_{143}^{CIB}	3.05	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.85^{+0.39}_{-0.39}$	z_*	1090.38	$1090.3^{+1.0}_{-0.99}$
A_{217}^{CIB}	51.2	50^{+10}_{-9}	y_{148}^{ACTs}	0.9915	$0.992^{+0.014}_{-0.014}$	r_*	144.70	$144.8^{+1.2}_{-1.2}$
A_{143}^{tSZ}	4.05	< 5.06	y_{217}^{ACTs}	1.0034	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04144	$1.0415^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.813	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9877	$0.989^{+0.014}_{-0.014}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9618	$0.964^{+0.020}_{-0.020}$	r_{drag}	147.47	$147.6^{+1.2}_{-1.1}$
γ^{CIB}	0.648	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9834	$0.984^{+0.040}_{-0.037}$	k_{D}	0.14014	$0.1401^{+0.0012}_{-0.0012}$
c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9849	$0.988^{+0.019}_{-0.018}$	$100\theta_{\text{D}}$	0.16135	$0.16135^{+0.00063}_{-0.00062}$
c_{217}	0.99738	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0174	$1.024^{+0.046}_{-0.044}$	z_{eq}	3390	3381^{+120}_{-120}
$\xi^{\text{tSZ-CIB}}$	0.046	< 0.828	Ω_{Λ}	0.6854	$0.688^{+0.030}_{-0.033}$	$100\theta_{\text{eq}}$	0.8149	$0.817^{+0.022}_{-0.022}$
A^{kSZ}	2.85	$5.34^{+4.0}_{-4.4}$	Ω_{m}	0.3146	$0.312^{+0.033}_{-0.030}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07146	$0.0716^{+0.0018}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 10509.04$; R-1 = 0.00529

χ_{eff}^2 : CMB - lowLike: 2014.51 lowl: -6.15 CamSpec: 7808.10 highL: 692.46

17.8 base_r_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02219^{+0.00051}_{-0.00050}$	β_1	0.44	$0.4^{+1.1}_{-1.1}$	σ_8	0.8278	$0.822^{+0.019}_{-0.019}$
$\Omega_c h^2$	0.11857	$0.1184^{+0.0042}_{-0.0043}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.7^{+1.2}_{-1.2}$	z_{re}	11.45	$11.0^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04146	$1.0415^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.0	77^{+9}_{-9}	H_0	67.91	$68.0^{+2.0}_{-1.9}$
τ	0.0946	$0.090^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.42	$7.86^{+3.0}_{-2.8}$	$r_{0.002}$	0.000	< 0.112
n_s	0.9619	$0.963^{+0.013}_{-0.012}$	$A_{150}^{\text{PS, SPT}}$	9.91	$10.2^{+1.0}_{-0.99}$	$10^9 A_s$	2.210	$2.19^{+0.10}_{-0.093}$
$\ln(10^{10} A_s)$	3.0957	$3.085^{+0.047}_{-0.043}$	$A_{220}^{\text{PS, SPT}}$	72.8	75^{+9}_{-9}	$\Omega_m h^2$	0.14142	$0.1412^{+0.0040}_{-0.0041}$
$r_{0.05}$	0.000	< 0.120	$r_{95 \times 150}^{\text{PS}}$	0.812	> 0.683	$\Omega_m h^3$	0.09604	$0.0960^{+0.0011}_{-0.0011}$
A_{100}^{PS}	206	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.564	$0.58^{+0.23}_{-0.22}$	Y_P	0.247770	$0.24776^{+0.00022}_{-0.00022}$
A_{143}^{PS}	72.1	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9071	$0.934^{+0.048}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8293	$1.827^{+0.021}_{-0.021}$
A_{217}^{PS}	60.0	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.415	$0.43^{+0.36}_{-0.39}$	Age/Gyr	13.791	$13.792^{+0.084}_{-0.086}$
A_{143}^{CIB}	3.42	$3.23^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.850	$0.84^{+0.38}_{-0.38}$	z_*	1090.10	$1090.12^{+0.91}_{-0.89}$
A_{217}^{CIB}	53.1	50^{+10}_{-9}	y_{148}^{ACTs}	0.9919	$0.993^{+0.015}_{-0.014}$	r_*	144.92	$145.0^{+1.0}_{-0.97}$
A_{143}^{tSZ}	4.97	< 4.97	y_{217}^{ACTs}	1.0029	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04161	$1.0416^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.822	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9882	$0.989^{+0.014}_{-0.014}$	z_{drag}	1059.51	$1059.5^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9615	$0.965^{+0.021}_{-0.020}$	r_{drag}	147.65	$147.7^{+1.0}_{-0.98}$
γ^{CIB}	0.664	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9852	$0.985^{+0.040}_{-0.037}$	k_D	0.14005	$0.1400^{+0.0011}_{-0.0011}$
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00077}$	y_{150}^{SPT}	0.9865	$0.989^{+0.019}_{-0.018}$	$100\theta_D$	0.16123	$0.16126^{+0.00062}_{-0.00061}$
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0025}$	y_{220}^{SPT}	1.0173	$1.026^{+0.046}_{-0.044}$	z_{eq}	3364	3359^{+96}_{-97}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.823	Ω_Λ	0.6934	$0.694^{+0.025}_{-0.026}$	$100\theta_{\text{eq}}$	0.8202	$0.821^{+0.019}_{-0.018}$
A^{kSZ}	0.64	$4.72^{+3.8}_{-4.1}$	Ω_m	0.3066	$0.306^{+0.026}_{-0.025}$	$r_{\text{drag}}/D_V(0.57)$	0.07190	$0.0720^{+0.0015}_{-0.0014}$

Best-fit $\chi^2_{\text{eff}} = 10517.60$; R-1 = 0.01080

χ^2_{eff} : CMB - lowLike: 2014.47 lensing: 9.60 lowl: -6.68 CamSpec: 7808.62 highL: 691.48

17.9 base_r_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022147	$0.02215^{+0.00047}_{-0.00047}$	β_1^1	0.42	$0.4^{+1.1}_{-1.1}$	σ_8	0.8284	$0.824^{+0.023}_{-0.022}$
$\Omega_c h^2$	0.11881	$0.1186^{+0.0034}_{-0.0033}$	$A_{148}^{\text{PS, ACT}}$	10.26	$10.5^{+1.2}_{-1.1}$	z_{re}	11.52	$11.2^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04143	$1.0415^{+0.0011}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	75.9	77^{+9}_{-9}	H_0	67.77	$67.9^{+1.5}_{-1.5}$
τ	0.0952	$0.091^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.03	$7.65^{+3.0}_{-2.8}$	$r_{0.002}$	0.000	< 0.111
n_s	0.9615	$0.962^{+0.011}_{-0.011}$	$A_{150}^{\text{PS, SPT}}$	9.74	$10.07^{+0.98}_{-0.99}$	$10^9 A_s$	2.213	$2.19^{+0.11}_{-0.11}$
$\ln(10^{10} A_s)$	3.0968	$3.088^{+0.051}_{-0.046}$	$A_{220}^{\text{PS, SPT}}$	72.8	74^{+9}_{-9}	$\Omega_m h^2$	0.14161	$0.1414^{+0.0033}_{-0.0032}$
$r_{0.05}$	0.000	< 0.119	$r_{95 \times 150}^{\text{PS}}$	0.821	> 0.681	$\Omega_m h^3$	0.09596	$0.0959^{+0.0011}_{-0.0011}$
A_{100}^{PS}	202	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.576	$0.59^{+0.24}_{-0.23}$	Y_{P}	0.247744	$0.24775^{+0.00020}_{-0.00020}$
A_{143}^{PS}	72.0	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9097	$0.937^{+0.047}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8291	$1.827^{+0.018}_{-0.018}$
A_{217}^{PS}	60.6	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.435	$0.43^{+0.36}_{-0.39}$	Age/Gyr	13.799	$13.796^{+0.072}_{-0.073}$
A_{143}^{CIB}	3.47	$3.24^{+1.6}_{-1.7}$	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.84^{+0.39}_{-0.39}$	z_*	1090.20	$1090.18^{+0.78}_{-0.75}$
A_{217}^{CIB}	52.8	50^{+10}_{-9}	y_{148}^{ACTs}	0.9916	$0.993^{+0.015}_{-0.014}$	r_*	144.90	$144.96^{+0.83}_{-0.83}$
A_{143}^{tSZ}	5.16	< 5.09	y_{217}^{ACTs}	1.0019	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04158	$1.0416^{+0.0011}_{-0.0011}$
$r_{143 \times 217}^{\text{PS}}$	0.823	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9878	$0.989^{+0.014}_{-0.014}$	z_{drag}	1059.40	$1059.4^{+1.0}_{-0.99}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9601	$0.964^{+0.020}_{-0.019}$	r_{drag}	147.65	$147.71^{+0.88}_{-0.87}$
γ^{CIB}	0.658	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9852	$0.985^{+0.040}_{-0.037}$	k_{D}	0.14001	$0.1399^{+0.0011}_{-0.0011}$
c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9851	$0.988^{+0.019}_{-0.018}$	$100\theta_{\text{D}}$	0.16130	$0.16131^{+0.00061}_{-0.00060}$
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0176	$1.025^{+0.047}_{-0.043}$	z_{eq}	3368	3362^{+79}_{-77}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.829	Ω_{Λ}	0.6916	$0.693^{+0.019}_{-0.021}$	$100\theta_{\text{eq}}$	0.8192	$0.820^{+0.015}_{-0.015}$
A^{kSZ}	1.03	$5.32^{+4.0}_{-4.4}$	Ω_{m}	0.3084	$0.307^{+0.021}_{-0.019}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07181	$0.0719^{+0.0012}_{-0.0011}$

Best-fit $\chi_{\text{eff}}^2 = 10510.96$; R-1 = 0.00660

χ_{eff}^2 : BAO - DR7: 1.13 DR9: 0.29 6DF: 0.01 CMB - lowLike: 2014.54 lowl: -6.64 CamSpec: 7808.34 highL: 693.15

17.10 base_r_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02229^{+0.00051}_{-0.00051}$	β_1	0.37	$0.3^{+1.1}_{-1.1}$	σ_8	0.8255	$0.820^{+0.025}_{-0.024}$
$\Omega_c h^2$	0.11773	$0.1168^{+0.0047}_{-0.0046}$	$A_{148}^{\text{PS, ACT}}$	10.27	$10.6^{+1.2}_{-1.1}$	z_{re}	11.60	$11.3^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04167	$1.0418^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.1	77^{+9}_{-9}	H_0	68.29	$68.7^{+2.1}_{-2.1}$
τ	0.0967	$0.094^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.11	$7.66^{+3.0}_{-2.9}$	$r_{0.002}$	0.000	< 0.123
n_s	0.9640	$0.966^{+0.014}_{-0.013}$	$A_{150}^{\text{PS, SPT}}$	9.81	$10.11^{+0.97}_{-1.0}$	$10^9 A_s$	2.214	$2.20^{+0.11}_{-0.10}$
$\ln(10^{10} A_s)$	3.0973	$3.090^{+0.051}_{-0.048}$	$A_{220}^{\text{PS, SPT}}$	72.9	74^{+9}_{-9}	$\Omega_m h^2$	0.14060	$0.1398^{+0.0044}_{-0.0044}$
$r_{0.05}$	0.000	< 0.129	$r_{95 \times 150}^{\text{PS}}$	0.815	> 0.680	$\Omega_m h^3$	0.09602	$0.0960^{+0.0011}_{-0.0011}$
A_{100}^{PS}	201	210^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.568	$0.59^{+0.24}_{-0.23}$	Y_P	0.247779	$0.24781^{+0.00022}_{-0.00022}$
A_{143}^{PS}	71.6	71^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9102	$0.938^{+0.047}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8243	$1.820^{+0.023}_{-0.023}$
A_{217}^{PS}	59.9	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.43^{+0.36}_{-0.39}$	Age/Gyr	13.779	$13.766^{+0.085}_{-0.086}$
A_{143}^{CIB}	3.35	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.850	$0.84^{+0.39}_{-0.39}$	z_*	1090.00	$1089.85^{+0.92}_{-0.88}$
A_{217}^{CIB}	52.7	50^{+10}_{-9}	y_{148}^{ACTs}	0.9917	$0.993^{+0.015}_{-0.014}$	r_*	145.12	$145.3^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.95	< 5.12	y_{217}^{ACTs}	1.0026	$1.007^{+0.027}_{-0.026}$	$100\theta_*$	1.04181	$1.0419^{+0.0011}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.821	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9879	$0.990^{+0.014}_{-0.014}$	z_{drag}	1059.51	$1059.6^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9613	$0.965^{+0.020}_{-0.020}$	r_{drag}	147.85	$148.0^{+1.1}_{-1.1}$
γ^{CIB}	0.660	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9850	$0.986^{+0.040}_{-0.037}$	k_D	0.13986	$0.1397^{+0.0012}_{-0.0012}$
c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9857	$0.989^{+0.019}_{-0.018}$	$100\theta_D$	0.16125	$0.16121^{+0.00061}_{-0.00059}$
c_{217}	0.99726	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0165	$1.025^{+0.047}_{-0.044}$	z_{eq}	3344	3324^{+110}_{-110}
$\xi^{\text{tSZ-CIB}}$	0.002	< 0.827	Ω_Λ	0.6985	$0.704^{+0.026}_{-0.028}$	$100\theta_{\text{eq}}$	0.8240	$0.828^{+0.021}_{-0.020}$
A^{kSZ}	1.38	—	Ω_m	0.3015	$0.296^{+0.028}_{-0.026}$	$r_{\text{drag}}/D_V(0.57)$	0.07221	$0.0725^{+0.0017}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 10515.28$; R-1 = 0.1134

χ_{eff}^2 : CMB - lowLike: 2014.58 lowl: -7.09 CamSpec: 7809.51 highL: 692.90 Hubble - HST: 5.25

17.11 base_r_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02221^{+0.00052}_{-0.00051}$	β_1^1	0.42	$0.3^{+1.1}_{-1.1}$	σ_8	0.8273	$0.822^{+0.025}_{-0.024}$
$\Omega_c h^2$	0.11847	$0.1177^{+0.0048}_{-0.0048}$	$A_{148}^{\text{PS, ACT}}$	10.25	$10.5^{+1.2}_{-1.1}$	z_{re}	11.52	$11.2^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04150	$1.0416^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.1	77^{+9}_{-9}	H_0	67.93	$68.3^{+2.2}_{-2.1}$
τ	0.0954	$0.093^{+0.027}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.19	$7.65^{+3.0}_{-2.9}$	$r_{0.002}$	0.000	< 0.118
n_s	0.9621	$0.964^{+0.014}_{-0.013}$	$A_{150}^{\text{PS, SPT}}$	9.78	$10.09^{+0.97}_{-1.0}$	$10^9 A_s$	2.212	$2.20^{+0.11}_{-0.10}$
$\ln(10^{10} A_s)$	3.0965	$3.089^{+0.051}_{-0.047}$	$A_{220}^{\text{PS, SPT}}$	72.7	74^{+9}_{-9}	$\Omega_m h^2$	0.14128	$0.1406^{+0.0046}_{-0.0046}$
$r_{0.05}$	0.000	< 0.124	$r_{95 \times 150}^{\text{PS}}$	0.804	> 0.680	$\Omega_m h^3$	0.09598	$0.0959^{+0.0011}_{-0.0011}$
A_{100}^{PS}	203	211^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.559	$0.59^{+0.24}_{-0.23}$	Y_P	0.247755	$0.24777^{+0.00022}_{-0.00022}$
A_{143}^{PS}	71.7	71^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9115	$0.937^{+0.047}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8278	$1.823^{+0.023}_{-0.023}$
A_{217}^{PS}	59.9	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.429	$0.43^{+0.36}_{-0.39}$	Age/Gyr	13.793	$13.783^{+0.088}_{-0.089}$
A_{143}^{CIB}	3.29	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.84^{+0.39}_{-0.39}$	z_*	1090.14	$1090.03^{+0.96}_{-0.95}$
A_{217}^{CIB}	52.6	50^{+10}_{-9}	y_{148}^{ACTs}	0.9918	$0.993^{+0.015}_{-0.014}$	r_*	144.97	$145.1^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.82	< 5.11	y_{217}^{ACTs}	1.0033	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04165	$1.0417^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9879	$0.989^{+0.014}_{-0.014}$	z_{drag}	1059.44	$1059.5^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.848	y_{217}^{ACTe}	0.9616	$0.965^{+0.020}_{-0.020}$	r_{drag}	147.71	$147.9^{+1.1}_{-1.1}$
γ^{CIB}	0.660	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9847	$0.985^{+0.039}_{-0.037}$	k_D	0.13996	$0.1398^{+0.0012}_{-0.0012}$
c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9853	$0.989^{+0.019}_{-0.018}$	$100\theta_D$	0.16128	$0.16128^{+0.00062}_{-0.00060}$
c_{217}	0.99736	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0169	$1.025^{+0.047}_{-0.044}$	z_{eq}	3361	3344^{+110}_{-110}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.829	Ω_Λ	0.6938	$0.698^{+0.028}_{-0.029}$	$100\theta_{\text{eq}}$	0.8207	$0.824^{+0.022}_{-0.021}$
A^{kSZ}	1.58	—	Ω_m	0.3062	$0.302^{+0.029}_{-0.028}$	$r_{\text{drag}}/D_V(0.57)$	0.07194	$0.0722^{+0.0017}_{-0.0016}$

Best-fit $\chi^2_{\text{eff}} = 10938.55$; R-1 = 0.00712

χ^2_{eff} : CMB - lowLike: 2014.54 lowl: -6.76 CamSpec: 7808.82 highL: 692.80 SN - SNLS: 429.06

17.12 base_r_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02213	$0.02214^{+0.00053}_{-0.00052}$	β_1	0.40	$0.4^{+1.1}_{-1.1}$	σ_8	0.8291	$0.825^{+0.024}_{-0.024}$
$\Omega_c h^2$	0.11905	$0.1188^{+0.0049}_{-0.0049}$	$A_{148}^{\text{PS, ACT}}$	10.27	$10.5^{+1.2}_{-1.1}$	z_{re}	11.52	$11.1^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04145	$1.0414^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	75.8	77^{+9}_{-9}	H_0	67.67	$67.8^{+2.2}_{-2.2}$
τ	0.0950	$0.091^{+0.027}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.36	$7.65^{+3.0}_{-2.8}$	$r_{0.002}$	0.000	< 0.111
n_s	0.9607	$0.961^{+0.014}_{-0.013}$	$A_{150}^{\text{PS, SPT}}$	9.76	$10.07^{+0.98}_{-1.0}$	$10^9 A_s$	2.213	$2.19^{+0.11}_{-0.11}$
$\ln(10^{10} A_s)$	3.0969	$3.088^{+0.051}_{-0.046}$	$A_{220}^{\text{PS, SPT}}$	72.7	74^{+9}_{-9}	$\Omega_m h^2$	0.14182	$0.1416^{+0.0046}_{-0.0046}$
$r_{0.05}$	0.000	< 0.119	$r_{95 \times 150}^{\text{PS}}$	0.796	> 0.681	$\Omega_m h^3$	0.09598	$0.0959^{+0.0011}_{-0.0011}$
A_{100}^{PS}	204	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.550	$0.59^{+0.24}_{-0.23}$	Y_P	0.247737	$0.24774^{+0.00022}_{-0.00023}$
A_{143}^{PS}	72.8	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9102	$0.937^{+0.047}_{-0.045}$	$10^9 A_s e^{-2\tau}$	1.8301	$1.828^{+0.024}_{-0.024}$
A_{217}^{PS}	59.9	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.418	$0.44^{+0.36}_{-0.39}$	Age/Gyr	13.801	$13.799^{+0.088}_{-0.089}$
A_{143}^{CIB}	3.26	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.832	$0.84^{+0.39}_{-0.39}$	z_*	1090.24	$1090.22^{+0.98}_{-0.95}$
A_{217}^{CIB}	52.8	50^{+10}_{-9}	y_{148}^{ACTs}	0.9913	$0.993^{+0.015}_{-0.014}$	r_*	144.85	$144.9^{+1.1}_{-1.1}$
A_{143}^{tSZ}	4.68	< 5.09	y_{217}^{ACTs}	1.0027	$1.006^{+0.027}_{-0.026}$	$100\theta_*$	1.04160	$1.0416^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.823	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9875	$0.989^{+0.014}_{-0.014}$	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9613	$0.964^{+0.020}_{-0.020}$	r_{drag}	147.60	$147.7^{+1.1}_{-1.1}$
γ^{CIB}	0.663	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9827	$0.985^{+0.040}_{-0.037}$	k_D	0.14004	$0.1400^{+0.0012}_{-0.0012}$
c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9845	$0.988^{+0.019}_{-0.019}$	$100\theta_D$	0.16131	$0.16132^{+0.00063}_{-0.00062}$
c_{217}	0.99736	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0175	$1.024^{+0.047}_{-0.043}$	z_{eq}	3373	3368^{+110}_{-110}
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.830	Ω_Λ	0.6903	$0.691^{+0.029}_{-0.031}$	$100\theta_{\text{eq}}$	0.8182	$0.819^{+0.021}_{-0.021}$
A^{kSZ}	1.71	$5.32^{+4.0}_{-4.4}$	Ω_m	0.3097	$0.309^{+0.031}_{-0.029}$	$r_{\text{drag}}/D_V(0.57)$	0.07174	$0.0718^{+0.0017}_{-0.0016}$

Best-fit $\chi^2_{\text{eff}} = 10639.69$; R-1 = 0.00561

χ^2_{eff} : CMB - lowLike: 2014.56 lowl: -6.46 CamSpec: 7808.44 highL: 692.68 SN - Union2.1: 130.40

17.13 base_r_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02206	$0.02209^{+0.00066}_{-0.00063}$	γ^{CIB}	0.544	$0.53^{+0.24}_{-0.25}$	Y_P	0.247705	$0.24772^{+0.00028}_{-0.00028}$
$\Omega_c h^2$	0.1197	$0.1193^{+0.0061}_{-0.0061}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8394	$1.832^{+0.029}_{-0.029}$
$100\theta_{\text{MC}}$	1.04128	$1.0414^{+0.0013}_{-0.0013}$	c_{217}	0.99655	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.817	$13.81^{+0.11}_{-0.12}$
τ	0.094	$0.094^{+0.069}_{-0.078}$	$\xi^{\text{tSZ-CIB}}$	0.57	—	z_*	1090.40	$1090.3^{+1.3}_{-1.3}$
n_s	0.9636	$0.963^{+0.019}_{-0.018}$	A^{kSZ}	0.5	—	r_*	144.73	$144.8^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.10^{+0.14}_{-0.14}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04144	$1.0415^{+0.0013}_{-0.0013}$
$r_{0.05}$	0.000	< 0.115	Ω_Λ	0.6858	$0.688^{+0.037}_{-0.039}$	z_{drag}	1059.25	$1059.3^{+1.3}_{-1.2}$
A_{100}^{PS}	177	167^{+100}_{-100}	Ω_m	0.3142	$0.312^{+0.039}_{-0.037}$	r_{drag}	147.51	$147.6^{+1.3}_{-1.3}$
A_{143}^{PS}	72.7	53^{+30}_{-30}	σ_8	0.834	$0.830^{+0.052}_{-0.050}$	k_D	0.14008	$0.1400^{+0.0013}_{-0.0013}$
A_{217}^{PS}	121.8	107^{+30}_{-30}	z_{re}	11.5	$11.2^{+6.2}_{-6.9}$	$100\theta_D$	0.16137	$0.16137^{+0.00073}_{-0.00072}$
A_{143}^{CIB}	0.0	—	H_0	67.32	$67.6^{+2.9}_{-2.7}$	z_{eq}	3388	3378^{+140}_{-140}
A_{217}^{CIB}	25	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.108	$100\theta_{\text{eq}}$	0.8153	$0.818^{+0.027}_{-0.026}$
A_{143}^{tSZ}	3.55	—	$10^9 A_s$	2.221	$2.22^{+0.31}_{-0.31}$	$r_{\text{drag}}/D_V(0.57)$	0.07149	$0.0717^{+0.0022}_{-0.0020}$
$r_{143 \times 217}^{\text{PS}}$	0.925	> 0.735	$\Omega_m h^2$	0.1424	$0.1420^{+0.0057}_{-0.0057}$			
$r_{143 \times 217}^{\text{CIB}}$	0.559	< 0.802	$\Omega_m h^3$	0.09588	$0.0959^{+0.0012}_{-0.0012}$			

Best-fit $\chi_{\text{eff}}^2 = 7791.55$; R-1 = 0.00629

χ_{eff}^2 : CMB - lowl: -6.96 CamSpec: 7797.90

17.14 base_r_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02219^{+0.00067}_{-0.00064}$	γ^{CIB}	0.561	$0.53^{+0.24}_{-0.26}$	Y_P	0.247791	$0.24776^{+0.00028}_{-0.00027}$
$\Omega_c h^2$	0.1178	$0.1182^{+0.0061}_{-0.0060}$	c_{100}	1.00062	$1.00059^{+0.00081}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8308	$1.828^{+0.029}_{-0.029}$
$100\theta_{\text{MC}}$	1.04159	$1.0415^{+0.0013}_{-0.0013}$	c_{217}	0.99641	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.779	$13.79^{+0.11}_{-0.12}$
τ	0.097	$0.090^{+0.062}_{-0.060}$	$\xi^{\text{tSZ-CIB}}$	0.26	—	z_*	1089.98	$1090.1^{+1.3}_{-1.3}$
n_s	0.9682	$0.965^{+0.019}_{-0.019}$	A^{kSZ}	1.36	—	r_*	145.07	$145.0^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.09^{+0.11}_{-0.11}$	β_1^1	0.61	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04173	$1.0416^{+0.0013}_{-0.0013}$
$r_{0.05}$	0.000	< 0.121	Ω_Λ	0.6979	$0.695^{+0.036}_{-0.039}$	z_{drag}	1059.59	$1059.5^{+1.3}_{-1.2}$
A_{100}^{PS}	158	166^{+100}_{-100}	Ω_m	0.3021	$0.305^{+0.039}_{-0.036}$	r_{drag}	147.78	$147.8^{+1.2}_{-1.2}$
A_{143}^{PS}	63.6	51^{+30}_{-30}	σ_8	0.8291	$0.823^{+0.035}_{-0.034}$	k_D	0.13995	$0.1399^{+0.0012}_{-0.0012}$
A_{217}^{PS}	116.6	105^{+30}_{-30}	z_{re}	11.6	$10.8^{+5.2}_{-5.6}$	$100\theta_D$	0.16120	$0.16128^{+0.00072}_{-0.00070}$
A_{143}^{CIB}	0.0	—	H_0	68.25	$68.0^{+2.9}_{-2.8}$	z_{eq}	3348	3355^{+140}_{-130}
A_{217}^{CIB}	25	29^{+20}_{-10}	$r_{0.002}$	0.000	< 0.115	$100\theta_{\text{eq}}$	0.8234	$0.822^{+0.027}_{-0.026}$
A_{143}^{tSZ}	5.20	—	$10^9 A_s$	2.221	$2.19^{+0.25}_{-0.25}$	$r_{\text{drag}}/D_V(0.57)$	0.07217	$0.0720^{+0.0022}_{-0.0021}$
$r_{143 \times 217}^{\text{PS}}$	0.918	> 0.727	$\Omega_m h^2$	0.1407	$0.1410^{+0.0057}_{-0.0055}$			
$r_{143 \times 217}^{\text{CIB}}$	0.506	< 0.808	$\Omega_m h^3$	0.09606	$0.0959^{+0.0012}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 7801.51$; R-1 = 0.01065

χ_{eff}^2 : CMB - lensing: 9.64 lowl: -7.69 CamSpec: 7799.09

17.15 base_r_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02215^{+0.00053}_{-0.00053}$	γ^{CIB}	0.540	$0.53^{+0.24}_{-0.25}$	Y_P	0.247755	$0.24774^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11889	$0.1184^{+0.0036}_{-0.0036}$	c_{100}	1.00059	$1.00059^{+0.00080}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8359	$1.829^{+0.020}_{-0.019}$
$100\theta_{\text{MC}}$	1.04145	$1.0415^{+0.0011}_{-0.0011}$	c_{217}	0.99636	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.797	$13.795^{+0.079}_{-0.080}$
τ	0.096	$0.0995^{+0.063}_{-0.068}$	$\xi^{\text{tSZ-CIB}}$	0.59	—	z_*	1090.17	$1090.16^{+0.86}_{-0.85}$
n_s	0.9663	$0.965^{+0.013}_{-0.013}$	A^{kSZ}	0.6	—	r_*	144.86	$145.01^{+0.85}_{-0.85}$
$\ln(10^{10} A_s)$	3.101	$3.11^{+0.12}_{-0.13}$	β_1^1	0.70	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04159	$1.0417^{+0.0011}_{-0.0011}$
$r_{0.05}$	0.000	< 0.116	Ω_Λ	0.6914	$0.694^{+0.021}_{-0.022}$	z_{drag}	1059.47	$1059.4^{+1.2}_{-1.2}$
A_{100}^{PS}	157	165^{+100}_{-100}	Ω_m	0.3086	$0.306^{+0.022}_{-0.021}$	r_{drag}	147.60	$147.76^{+0.89}_{-0.90}$
A_{143}^{PS}	65.4	52^{+30}_{-30}	σ_8	0.832	$0.832^{+0.051}_{-0.053}$	k_D	0.14008	$0.1399^{+0.0011}_{-0.0011}$
A_{217}^{PS}	124.7	107^{+30}_{-30}	z_{re}	11.5	$11.7^{+5.6}_{-6.1}$	$100\theta_D$	0.16126	$0.16132^{+0.00067}_{-0.00066}$
A_{143}^{CIB}	0.0	—	H_0	67.76	$67.9^{+1.7}_{-1.6}$	z_{eq}	3371	3358^{+82}_{-81}
A_{217}^{CIB}	23	28^{+20}_{-10}	$r_{0.002}$	0.000	< 0.109	$100\theta_{\text{eq}}$	0.8188	$0.821^{+0.016}_{-0.015}$
A_{143}^{tSZ}	5.27	—	$10^9 A_s$	2.222	$2.24^{+0.29}_{-0.29}$	$r_{\text{drag}}/D_V(0.57)$	0.07179	$0.0720^{+0.0012}_{-0.0012}$
$r_{143 \times 217}^{\text{PS}}$	0.965	> 0.734	$\Omega_m h^2$	0.14171	$0.1412^{+0.0034}_{-0.0034}$			
$r_{143 \times 217}^{\text{CIB}}$	0.437	< 0.799	$\Omega_m h^3$	0.09602	$0.0959^{+0.0011}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 7792.90$; R-1 = 0.00862

χ_{eff}^2 : BAO - DR7: 1.17 6DF: 0.01 DR9: 0.27 CMB - lowl: -7.40 CamSpec: 7798.21

17.16 base_r_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02228	$0.02239^{+0.00064}_{-0.00060}$	γ^{CIB}	0.511	$0.53^{+0.24}_{-0.26}$	Y_P	0.247801	$0.24785^{+0.00027}_{-0.00026}$
$\Omega_c h^2$	0.1173	$0.1158^{+0.0053}_{-0.0054}$	c_{100}	1.00059	$1.00059^{+0.00080}_{-0.00081}$	$10^9 A_s e^{-2\tau}$	1.8254	$1.817^{+0.026}_{-0.026}$
$100\theta_{\text{MC}}$	1.04172	$1.0419^{+0.0012}_{-0.0013}$	c_{217}	0.99627	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.771	$13.75^{+0.10}_{-0.11}$
τ	0.098	$0.122^{+0.073}_{-0.076}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.90	$1089.6^{+1.1}_{-1.1}$
n_s	0.9672	$0.973^{+0.019}_{-0.017}$	A^{kSZ}	0.0	—	r_*	145.18	$145.5^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.100	$3.14^{+0.14}_{-0.14}$	β_1^1	0.55	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04185	$1.0420^{+0.0012}_{-0.0012}$
$r_{0.05}$	0.000	< 0.120	Ω_Λ	0.7010	$0.710^{+0.031}_{-0.032}$	z_{drag}	1059.63	$1059.8^{+1.2}_{-1.2}$
A_{100}^{PS}	130	158^{+100}_{-100}	Ω_m	0.2990	$0.290^{+0.032}_{-0.031}$	r_{drag}	147.89	$148.2^{+1.2}_{-1.2}$
A_{143}^{PS}	47.9	50^{+30}_{-20}	σ_8	0.826	$0.840^{+0.053}_{-0.055}$	k_D	0.13985	$0.1396^{+0.0012}_{-0.0012}$
A_{217}^{PS}	113.8	107^{+30}_{-30}	z_{re}	11.6	$13.3^{+5.5}_{-6.0}$	$100\theta_D$	0.16120	$0.16114^{+0.00069}_{-0.00068}$
A_{143}^{CIB}	4.59	—	H_0	68.49	$69.2^{+2.6}_{-2.5}$	z_{eq}	3336	3302^{+120}_{-120}
A_{217}^{CIB}	28.5	28^{+20}_{-10}	$r_{0.002}$	0.000	< 0.117	$100\theta_{\text{eq}}$	0.8256	$0.833^{+0.025}_{-0.023}$
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.219	$2.32^{+0.31}_{-0.32}$	$r_{\text{drag}}/D_V(0.57)$	0.07235	$0.0729^{+0.0020}_{-0.0019}$
$r_{143 \times 217}^{\text{PS}}$	0.891	> 0.735	$\Omega_m h^2$	0.1403	$0.1388^{+0.0050}_{-0.0050}$			
$r_{143 \times 217}^{\text{CIB}}$	0.535	< 0.800	$\Omega_m h^3$	0.09608	$0.0961^{+0.0012}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 7797.24$; R-1 = 0.01668

χ_{eff}^2 : CMB - lowl: -7.56 CamSpec: 7799.02 Hubble - HST: 4.89

17.17 base_r_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02220	$0.02227^{+0.00065}_{-0.00062}$	γ^{CIB}	0.544	$0.53^{+0.24}_{-0.26}$	Y_P	0.247766	$0.24780^{+0.00027}_{-0.00027}$
$\Omega_c h^2$	0.1183	$0.1170^{+0.0056}_{-0.0056}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00080}$	$10^9 A_s e^{-2\tau}$	1.8323	$1.822^{+0.027}_{-0.027}$
$100\theta_{\text{MC}}$	1.04147	$1.0417^{+0.0013}_{-0.0013}$	c_{217}	0.99639	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.790	$13.77^{+0.11}_{-0.11}$
τ	0.097	$0.111^{+0.072}_{-0.076}$	$\xi^{\text{tSZ-CIB}}$	0.15	—	z_*	1090.09	$1089.9^{+1.2}_{-1.2}$
n_s	0.9668	$0.969^{+0.019}_{-0.017}$	A^{kSZ}	0.9	—	r_*	144.99	$145.3^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.102	$3.13^{+0.13}_{-0.15}$	β_1^1	0.65	$0.4^{+1.1}_{-1.1}$	$100\theta_*$	1.04162	$1.0418^{+0.0013}_{-0.0013}$
$r_{0.05}$	0.000	< 0.119	Ω_Λ	0.6947	$0.702^{+0.032}_{-0.034}$	z_{drag}	1059.47	$1059.6^{+1.3}_{-1.2}$
A_{100}^{PS}	149	161^{+100}_{-100}	Ω_m	0.3053	$0.298^{+0.034}_{-0.032}$	r_{drag}	147.72	$148.0^{+1.2}_{-1.2}$
A_{143}^{PS}	63.8	51^{+30}_{-20}	σ_8	0.830	$0.836^{+0.051}_{-0.055}$	k_D	0.13997	$0.1397^{+0.0012}_{-0.0012}$
A_{217}^{PS}	121.2	107^{+30}_{-30}	z_{re}	11.6	$12.5^{+5.8}_{-6.4}$	$100\theta_D$	0.16125	$0.16124^{+0.00071}_{-0.00069}$
A_{143}^{CIB}	0.0	—	H_0	68.00	$68.6^{+2.7}_{-2.6}$	z_{eq}	3357	3327^{+120}_{-120}
A_{217}^{CIB}	24	28^{+20}_{-10}	$r_{0.002}$	0.000	< 0.113	$100\theta_{\text{eq}}$	0.8213	$0.828^{+0.025}_{-0.024}$
A_{143}^{tSZ}	6.20	—	$10^9 A_s$	2.223	$2.28^{+0.32}_{-0.31}$	$r_{\text{drag}}/D_V(0.57)$	0.07198	$0.0725^{+0.0020}_{-0.0019}$
$r_{143 \times 217}^{\text{PS}}$	0.907	> 0.734	$\Omega_m h^2$	0.1412	$0.1399^{+0.0052}_{-0.0052}$			
$r_{143 \times 217}^{\text{CIB}}$	0.590	< 0.800	$\Omega_m h^3$	0.09599	$0.0960^{+0.0012}_{-0.0011}$			

Best-fit $\chi_{\text{eff}}^2 = 8220.48$; R-1 = 0.01013

χ_{eff}^2 : CMB - lowl: -7.49 CamSpec: 7798.39 SN - SNLS: 428.98

17.18 base_r_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.02215^{+0.00064}_{-0.00062}$	γ^{CIB}	0.534	$0.53^{+0.24}_{-0.26}$	Y_P	0.247743	$0.24774^{+0.00027}_{-0.00027}$
$\Omega_c h^2$	0.1192	$0.1185^{+0.0057}_{-0.0056}$	c_{100}	1.00059	$1.00059^{+0.00080}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8364	$1.829^{+0.028}_{-0.028}$
$100\theta_{\text{MC}}$	1.04139	$1.0415^{+0.0013}_{-0.0013}$	c_{217}	0.99637	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.802	$13.80^{+0.11}_{-0.11}$
τ	0.095	$0.0995^{+0.073}_{-0.073}$	$\xi^{\text{tSZ-CIB}}$	0.13	—	z_*	1090.24	$1090.2^{+1.2}_{-1.2}$
n_s	0.9649	$0.965^{+0.018}_{-0.017}$	A^{kSZ}	1.25	—	r_*	144.79	$145.0^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.100	$3.11^{+0.14}_{-0.14}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04154	$1.0416^{+0.0013}_{-0.0013}$
$r_{0.05}$	0.000	< 0.116	Ω_Λ	0.6892	$0.693^{+0.033}_{-0.036}$	z_{drag}	1059.44	$1059.4^{+1.2}_{-1.2}$
A_{100}^{PS}	144	165^{+100}_{-100}	Ω_m	0.3108	$0.307^{+0.036}_{-0.033}$	r_{drag}	147.54	$147.7^{+1.2}_{-1.2}$
A_{143}^{PS}	61.9	52^{+30}_{-30}	σ_8	0.832	$0.832^{+0.052}_{-0.052}$	k_D	0.14012	$0.1399^{+0.0012}_{-0.0012}$
A_{217}^{PS}	122.0	107^{+30}_{-30}	z_{re}	11.5	$11.6^{+6.0}_{-6.7}$	$100\theta_D$	0.16128	$0.16133^{+0.00072}_{-0.00070}$
A_{143}^{CIB}	0.0	—	H_0	67.60	$67.9^{+2.7}_{-2.6}$	z_{eq}	3378	3360^{+130}_{-120}
A_{217}^{CIB}	24	28^{+20}_{-10}	$r_{0.002}$	0.000	< 0.109	$100\theta_{\text{eq}}$	0.8173	$0.821^{+0.025}_{-0.024}$
A_{143}^{tSZ}	6.61	—	$10^9 A_s$	2.219	$2.24^{+0.31}_{-0.32}$	$r_{\text{drag}}/D_V(0.57)$	0.07167	$0.0719^{+0.0020}_{-0.0019}$
$r_{143 \times 217}^{\text{PS}}$	0.904	> 0.734	$\Omega_m h^2$	0.1420	$0.1413^{+0.0054}_{-0.0052}$			
$r_{143 \times 217}^{\text{CIB}}$	0.474	< 0.800	$\Omega_m h^3$	0.09601	$0.0959^{+0.0012}_{-0.0012}$			

Best-fit $\chi_{\text{eff}}^2 = 7921.63$; R-1 = 0.00651

χ_{eff}^2 : CMB - lowl: -7.21 CamSpec: 7797.72 SN - Union2.1: 130.43

17.19 base_r_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02288	$0.0233^{+0.0014}_{-0.0013}$	σ_8	0.809	$0.791^{+0.050}_{-0.054}$	z_*	1088.74	$1088.0^{+2.2}_{-2.4}$
$\Omega_c h^2$	0.1125	$0.109^{+0.011}_{-0.011}$	z_{re}	10.84	$10.6^{+2.2}_{-2.2}$	r_*	146.02	$146.8^{+2.5}_{-2.5}$
$100\theta_{\text{MC}}$	1.04084	$1.0414^{+0.0051}_{-0.0048}$	H_0	70.5	$72.6^{+6.4}_{-6.0}$	$100\theta_*$	1.04093	$1.0415^{+0.0050}_{-0.0047}$
τ	0.0917	$0.092^{+0.029}_{-0.028}$	$r_{0.002}$	0.063	< 0.427	z_{drag}	1060.62	$1061.2^{+2.8}_{-2.7}$
n_s	0.9833	$0.996^{+0.043}_{-0.039}$	$10^9 A_s$	2.218	$2.19^{+0.14}_{-0.13}$	r_{drag}	148.55	$149.2^{+2.5}_{-2.4}$
$\ln(10^{10} A_s)$	3.099	$3.088^{+0.062}_{-0.059}$	$\Omega_m h^2$	0.1360	$0.133^{+0.010}_{-0.010}$	k_D	0.13960	$0.1392^{+0.0026}_{-0.0026}$
$r_{0.05}$	0.064	< 0.343	$\Omega_m h^3$	0.09586	$0.0961^{+0.0038}_{-0.0037}$	$100\theta_D$	0.16043	$0.1602^{+0.0011}_{-0.0011}$
A_{tSZ}	0.09	—	Y_P	0.24805	$0.24821^{+0.00058}_{-0.00055}$	z_{eq}	3234	3153^{+240}_{-240}
Ω_Λ	0.726	$0.746^{+0.058}_{-0.062}$	$10^9 A_s e^{-2\tau}$	1.846	$1.826^{+0.063}_{-0.061}$	$100\theta_{\text{eq}}$	0.846	$0.865^{+0.056}_{-0.055}$
Ω_m	0.274	$0.254^{+0.062}_{-0.058}$	Age/Gyr	13.713	$13.63^{+0.30}_{-0.31}$	$r_{\text{drag}}/D_V(0.57)$	0.07381	$0.0754^{+0.0049}_{-0.0047}$

Best-fit $\chi^2_{\text{eff}} = 7557.73$; R-1 = 0.01009

χ^2_{eff} : CMB - WMAP: 7557.73

17.20 base_r_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02253	$0.02268^{+0.00084}_{-0.00087}$	σ_8	0.8203	$0.816^{+0.035}_{-0.036}$	z_*	1089.49	$1089.3^{+1.1}_{-1.0}$
$\Omega_c h^2$	0.11627	$0.1156^{+0.0047}_{-0.0050}$	z_{re}	10.84	$10.4^{+2.1}_{-2.2}$	r_*	145.27	$145.3^{+1.5}_{-1.5}$
$100\theta_{\text{MC}}$	1.03985	$1.0397^{+0.0039}_{-0.0041}$	H_0	68.46	$68.8^{+2.0}_{-2.0}$	$100\theta_*$	1.03996	$1.0398^{+0.0039}_{-0.0040}$
τ	0.0894	$0.086^{+0.026}_{-0.025}$	$r_{0.002}$	0.000	< 0.206	z_{drag}	1060.12	$1060.4^{+2.0}_{-2.1}$
n_s	0.9689	$0.976^{+0.022}_{-0.022}$	$10^9 A_s$	2.222	$2.21^{+0.13}_{-0.12}$	r_{drag}	147.90	$147.9^{+1.7}_{-1.7}$
$\ln(10^{10} A_s)$	3.101	$3.093^{+0.059}_{-0.058}$	$\Omega_m h^2$	0.1394	$0.1389^{+0.0051}_{-0.0051}$	k_D	0.14003	$0.1401^{+0.0022}_{-0.0023}$
$r_{0.05}$	0.000	< 0.198	$\Omega_m h^3$	0.09546	$0.0955^{+0.0034}_{-0.0034}$	$100\theta_D$	0.16061	$0.1604^{+0.0010}_{-0.00095}$
A_{tSZ}	1.22	—	Y_P	0.247907	$0.24797^{+0.00035}_{-0.00037}$	z_{eq}	3317	3304^{+120}_{-120}
Ω_Λ	0.7025	$0.706^{+0.023}_{-0.024}$	$10^9 A_s e^{-2\tau}$	1.8581	$1.858^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8285	$0.831^{+0.021}_{-0.020}$
Ω_m	0.2975	$0.294^{+0.024}_{-0.023}$	Age/Gyr	13.797	$13.78^{+0.17}_{-0.17}$	$r_{\text{drag}}/D_V(0.57)$	0.07227	$0.0725^{+0.0014}_{-0.0014}$

Best-fit $\chi^2_{\text{eff}} = 7559.66$; R-1 = 0.02692

χ^2_{eff} : BAO - 6DF: 0.07 DR7: 0.35 DR9: 0.85 CMB - WMAP: 7558.39

17.21 base_r_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02337	$0.0234^{+0.0011}_{-0.0010}$	σ_8	0.7948	$0.787^{+0.045}_{-0.044}$	z_*	1087.81	$1087.7^{+1.5}_{-1.5}$
$\Omega_c h^2$	0.1082	$0.1074^{+0.0078}_{-0.0073}$	z_{re}	10.97	$10.6^{+2.2}_{-2.1}$	r_*	146.78	$147.0^{+2.0}_{-2.0}$
$100\theta_{\text{MC}}$	1.04199	$1.0418^{+0.0042}_{-0.0043}$	H_0	72.95	$73.3^{+3.9}_{-3.7}$	$100\theta_*$	1.04204	$1.0418^{+0.0042}_{-0.0042}$
τ	0.0964	$0.093^{+0.029}_{-0.026}$	$r_{0.002}$	0.147	< 0.397	z_{drag}	1061.42	$1061.4^{+2.3}_{-2.2}$
n_s	0.9985	$0.999^{+0.032}_{-0.031}$	$10^9 A_s$	2.216	$2.19^{+0.14}_{-0.14}$	r_{drag}	149.17	$149.4^{+2.1}_{-2.1}$
$\ln(10^{10} A_s)$	3.098	$3.087^{+0.065}_{-0.061}$	$\Omega_m h^2$	0.1322	$0.1314^{+0.0075}_{-0.0071}$	k_D	0.13927	$0.1390^{+0.0025}_{-0.0025}$
$r_{0.05}$	0.139	< 0.329	$\Omega_m h^3$	0.09647	$0.0962^{+0.0036}_{-0.0036}$	$100\theta_D$	0.16014	$0.1601^{+0.0010}_{-0.0010}$
A_{tSZ}	0.62	—	Y_P	0.248255	$0.24826^{+0.00043}_{-0.00042}$	z_{eq}	3144	3125^{+180}_{-170}
Ω_Λ	0.7515	$0.754^{+0.037}_{-0.039}$	$10^9 A_s e^{-2\tau}$	1.827	$1.820^{+0.052}_{-0.051}$	$100\theta_{\text{eq}}$	0.8667	$0.871^{+0.037}_{-0.037}$
Ω_m	0.2485	$0.246^{+0.039}_{-0.037}$	Age/Gyr	13.605	$13.60^{+0.21}_{-0.22}$	$r_{\text{drag}}/D_V(0.57)$	0.07566	$0.0760^{+0.0031}_{-0.0029}$

Best-fit $\chi^2_{\text{eff}} = 7558.41$; R-1 = 0.01538

χ^2_{eff} : CMB - WMAP: 7558.25 Hubble - HST: 0.16

17.22 base_r_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02324	$0.0234^{+0.0013}_{-0.0013}$	σ_8	0.7950	$0.785^{+0.047}_{-0.048}$	z_*	1088.00	$1087.7^{+1.9}_{-2.0}$
$\Omega_c h^2$	0.1088	$0.1070^{+0.0089}_{-0.0090}$	z_{re}	10.75	$10.6^{+2.2}_{-2.2}$	r_*	146.72	$147.1^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04169	$1.0418^{+0.0049}_{-0.0047}$	H_0	72.5	$73.5^{+5.3}_{-5.0}$	$100\theta_*$	1.04175	$1.0419^{+0.0048}_{-0.0046}$
τ	0.0929	$0.093^{+0.030}_{-0.027}$	$r_{0.002}$	0.137	< 0.437	z_{drag}	1061.19	$1061.4^{+2.7}_{-2.5}$
n_s	0.9961	$1.001^{+0.039}_{-0.036}$	$10^9 A_s$	2.205	$2.19^{+0.14}_{-0.13}$	r_{drag}	149.15	$149.5^{+2.2}_{-2.2}$
$\ln(10^{10} A_s)$	3.093	$3.087^{+0.063}_{-0.060}$	$\Omega_m h^2$	0.1327	$0.1310^{+0.0084}_{-0.0084}$	k_D	0.13921	$0.1390^{+0.0024}_{-0.0025}$
$r_{0.05}$	0.132	< 0.349	$\Omega_m h^3$	0.09621	$0.0962^{+0.0038}_{-0.0037}$	$100\theta_D$	0.16024	$0.1601^{+0.0011}_{-0.0011}$
A_{tSZ}	0.00	—	Y_P	0.24820	$0.24827^{+0.00053}_{-0.00052}$	z_{eq}	3155	3115^{+200}_{-200}
Ω_Λ	0.7476	$0.756^{+0.046}_{-0.048}$	$10^9 A_s e^{-2\tau}$	1.831	$1.818^{+0.055}_{-0.054}$	$100\theta_{\text{eq}}$	0.8638	$0.873^{+0.047}_{-0.046}$
Ω_m	0.2524	$0.244^{+0.048}_{-0.046}$	Age/Gyr	13.631	$13.60^{+0.25}_{-0.28}$	$r_{\text{drag}}/D_V(0.57)$	0.07535	$0.0761^{+0.0041}_{-0.0039}$

Best-fit $\chi^2_{\text{eff}} = 7983.76$; R-1 = 0.01376

χ^2_{eff} : CMB - WMAP: 7557.99 SN - SNLS: 425.77

17.23 base_r_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02264	$0.0232^{+0.0013}_{-0.0012}$	σ_8	0.8126	$0.795^{+0.045}_{-0.047}$	z_*	1089.15	$1088.2^{+1.8}_{-2.0}$
$\Omega_c h^2$	0.1139	$0.1098^{+0.0091}_{-0.0092}$	z_{re}	10.99	$10.6^{+2.2}_{-2.2}$	r_*	145.82	$146.5^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04018	$1.0411^{+0.0047}_{-0.0045}$	H_0	69.5	$71.9^{+5.2}_{-4.9}$	$100\theta_*$	1.04030	$1.0412^{+0.0046}_{-0.0045}$
τ	0.0923	$0.091^{+0.029}_{-0.028}$	$r_{0.002}$	0.006	< 0.364	z_{drag}	1060.20	$1061.1^{+2.5}_{-2.4}$
n_s	0.9739	$0.992^{+0.037}_{-0.034}$	$10^9 A_s$	2.221	$2.20^{+0.14}_{-0.14}$	r_{drag}	148.42	$149.0^{+2.3}_{-2.2}$
$\ln(10^{10} A_s)$	3.101	$3.089^{+0.063}_{-0.059}$	$\Omega_m h^2$	0.1372	$0.1336^{+0.0086}_{-0.0086}$	k_D	0.13957	$0.1393^{+0.0025}_{-0.0026}$
$r_{0.05}$	0.007	< 0.305	$\Omega_m h^3$	0.09540	$0.0960^{+0.0037}_{-0.0036}$	$100\theta_D$	0.16059	$0.1602^{+0.0011}_{-0.0010}$
A_{tSZ}	0.80	—	Y_P	0.247955	$0.24817^{+0.00051}_{-0.00046}$	z_{eq}	3262	3177^{+210}_{-210}
Ω_Λ	0.716	$0.740^{+0.048}_{-0.052}$	$10^9 A_s e^{-2\tau}$	1.847	$1.831^{+0.056}_{-0.055}$	$100\theta_{\text{eq}}$	0.8394	$0.859^{+0.046}_{-0.045}$
Ω_m	0.284	$0.260^{+0.052}_{-0.048}$	Age/Gyr	13.763	$13.66^{+0.26}_{-0.27}$	$r_{\text{drag}}/D_V(0.57)$	0.07314	$0.0749^{+0.0039}_{-0.0038}$

Best-fit $\chi^2_{\text{eff}} = 7687.92$; R-1 = 0.00895

χ^2_{eff} : CMB - WMAP: 7558.01 SN - Union2.1: 129.91

18 w

18.1 base_w_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02210	$0.02206^{+0.00055}_{-0.00054}$	$r_{143 \times 217}^{\text{CIB}}$	0.436	< 0.809	$\Omega_m h^3$	0.1049	$0.119^{+0.027}_{-0.029}$
$\Omega_c h^2$	0.1199	$0.1199^{+0.0051}_{-0.0050}$	γ^{CIB}	0.533	$0.54^{+0.23}_{-0.25}$	Y_{P}	0.247725	$0.24771^{+0.00024}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04129	$1.0413^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8400	$1.836^{+0.025}_{-0.024}$
τ	0.0930	$0.089^{+0.027}_{-0.024}$	c_{217}	0.99646	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.700	$13.61^{+0.31}_{-0.24}$
w	-1.20	$-1.49^{+0.65}_{-0.57}$	$\xi^{\text{tSZ-CIB}}$	0.12	—	z_*	1090.36	$1090.4^{+1.0}_{-1.0}$
n_s	0.9632	$0.960^{+0.014}_{-0.014}$	A^{kSZ}	0.9	—	r_*	144.64	$144.7^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0983	$3.089^{+0.051}_{-0.047}$	β_1^1	0.70	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04144	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	151	168^{+100}_{-100}	Ω_Λ	0.736	> 0.653	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
A_{143}^{PS}	64.5	54^{+30}_{-30}	Ω_m	0.264	< 0.347	r_{drag}	147.39	$147.4^{+1.1}_{-1.1}$
A_{217}^{PS}	121.9	107^{+30}_{-30}	σ_8	0.893	$0.97^{+0.16}_{-0.18}$	k_{D}	0.14024	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.36	$11.0^{+2.2}_{-2.2}$	$100\theta_{\text{D}}$	0.16130	$0.16137^{+0.00066}_{-0.00065}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	73.5	> 64.3	z_{eq}	3394	3393^{+120}_{-110}
A_{143}^{tSZ}	6.10	—	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8143	$0.815^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.894	> 0.738	$\Omega_m h^2$	0.14270	$0.1426^{+0.0048}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07287	$0.0741^{+0.0037}_{-0.0043}$

Best-fit $\chi_{\text{eff}}^2 = 9804.62$; R-1 = 0.00582

χ_{eff}^2 : CMB - lowLike: 2014.56 lowl: -7.41 CamSpec: 7796.77

18.2 base_w_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02222^{+0.00056}_{-0.00053}$	$r_{143 \times 217}^{\text{CIB}}$	0.504	< 0.817	$\Omega_m h^3$	0.1262	$0.117^{+0.025}_{-0.028}$
$\Omega_c h^2$	0.11798	$0.1180^{+0.0043}_{-0.0043}$	γ^{CIB}	0.517	$0.53^{+0.23}_{-0.25}$	Y_P	0.247793	$0.24777^{+0.00024}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04154	$1.0415^{+0.0012}_{-0.0012}$	c_{100}	1.00060	$1.00059^{+0.00079}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.828^{+0.021}_{-0.020}$
τ	0.0805	$0.088^{+0.026}_{-0.024}$	c_{217}	0.99628	$0.9964^{+0.0026}_{-0.0027}$	Age/Gyr	13.494	$13.58^{+0.31}_{-0.24}$
w	-1.63	$-1.45^{+0.58}_{-0.51}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1089.98	$1090.04^{+0.94}_{-0.91}$
n_s	0.9651	$0.964^{+0.013}_{-0.013}$	A^{kSZ}	0.0	—	r_*	145.03	$145.07^{+0.96}_{-0.94}$
$\ln(10^{10} A_s)$	3.0678	$3.081^{+0.047}_{-0.043}$	β_1^1	0.57	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04167	$1.0417^{+0.0012}_{-0.0012}$
A_{100}^{PS}	137	167^{+100}_{-100}	Ω_Λ	0.824	> 0.668	z_{drag}	1059.63	$1059.5^{+1.2}_{-1.1}$
A_{143}^{PS}	47.7	51^{+30}_{-30}	Ω_m	0.176	< 0.332	r_{drag}	147.74	$147.80^{+0.98}_{-0.95}$
A_{217}^{PS}	112.8	104^{+30}_{-30}	σ_8	0.994	$0.95^{+0.15}_{-0.16}$	k_D	0.14000	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	5.02	—	z_{re}	10.14	$10.8^{+2.1}_{-2.1}$	$100\theta_D$	0.16118	$0.16124^{+0.00065}_{-0.00065}$
A_{217}^{CIB}	28.7	29^{+20}_{-10}	H_0	89.6	> 65.4	z_{eq}	3351	3349^{+95}_{-95}
A_{143}^{tSZ}	9.39	—	$10^9 A_s$	2.149	$2.18^{+0.10}_{-0.092}$	$100\theta_{\text{eq}}$	0.8227	$0.823^{+0.019}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.889	> 0.725	$\Omega_m h^2$	0.14089	$0.1408^{+0.0040}_{-0.0040}$	$r_{\text{drag}}/D_V(0.57)$	0.07591	$0.0748^{+0.0037}_{-0.0043}$

Best-fit $\chi_{\text{eff}}^2 = 9814.06$; R-1 = 0.01931

χ_{eff}^2 : CMB - lowLike: 2014.94 lensing: 8.89 lowl: -8.57 CamSpec: 7797.95

18.3 base_w_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02211^{+0.00054}_{-0.00053}$	β_1^1	0.41	$0.4^{+1.1}_{-1.1}$	σ_8	0.889	$0.97^{+0.15}_{-0.18}$
$\Omega_c h^2$	0.1198	$0.1197^{+0.0051}_{-0.0049}$	$A_{148}^{\text{PS, ACT}}$	10.29	$10.5^{+1.2}_{-1.1}$	z_{re}	11.54	$11.1^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04136	$1.0414^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.3	77^{+9}_{-9}	H_0	73.4	> 65.9
τ	0.0952	$0.090^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.37	$7.67^{+3.0}_{-2.8}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.10}$
w	-1.20	$-1.51^{+0.62}_{-0.53}$	$A_{150}^{\text{PS, SPT}}$	9.81	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14255	$0.1425^{+0.0048}_{-0.0047}$
n_s	0.9592	$0.958^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	73.0	74^{+9}_{-9}	$\Omega_m h^3$	0.1046	$0.120^{+0.025}_{-0.028}$
$\ln(10^{10} A_s)$	3.0995	$3.089^{+0.051}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.792	> 0.684	Y_P	0.247732	$0.24773^{+0.00023}_{-0.00023}$
A_{100}^{PS}	201	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.544	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8339	$1.833^{+0.024}_{-0.024}$
A_{143}^{PS}	72.0	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9109	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.699	$13.59^{+0.29}_{-0.23}$
A_{217}^{PS}	60.5	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.424	$0.43^{+0.36}_{-0.39}$	z_*	1090.32	$1090.3^{+1.0}_{-0.99}$
A_{143}^{CIB}	3.18	$3.26^{+1.7}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.85^{+0.39}_{-0.38}$	r_*	144.67	$144.7^{+1.1}_{-1.2}$
A_{217}^{CIB}	52.1	50^{+10}_{-10}	y_{148}^{ACTs}	0.9916	$0.992^{+0.015}_{-0.014}$	$100\theta_*$	1.04152	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.61	< 5.06	y_{217}^{ACTs}	1.0029	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.40	$1059.4^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.814	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9878	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.42	$147.4^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.847	y_{217}^{ACTe}	0.9613	$0.964^{+0.020}_{-0.020}$	k_D	0.14023	$0.1402^{+0.0012}_{-0.0012}$
γ^{CIB}	0.657	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9841	$0.984^{+0.040}_{-0.037}$	$100\theta_D$	0.16129	$0.16131^{+0.00063}_{-0.00064}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9849	$0.988^{+0.019}_{-0.019}$	z_{eq}	3391	3389^{+120}_{-110}
c_{217}	0.99736	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0163	$1.024^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8150	$0.815^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.832	Ω_Λ	0.735	> 0.670	$r_{\text{drag}}/D_V(0.57)$	0.07290	$0.0744^{+0.0036}_{-0.0041}$
A^{kSZ}	1.83	$5.28^{+4.0}_{-4.4}$	Ω_m	0.265	< 0.330			

Best-fit $\chi_{\text{eff}}^2 = 10508.11$; R-1 = 0.00657

χ_{eff}^2 : CMB - lowLike: 2014.73 lowl: -6.58 CamSpec: 7807.43 highL: 692.41

18.4 base_w_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02221	$0.02224^{+0.00053}_{-0.00051}$	β_1^1	0.38	$0.3^{+1.0}_{-1.1}$	σ_8	0.837	$0.96^{+0.14}_{-0.16}$
$\Omega_c h^2$	0.11831	$0.1180^{+0.0042}_{-0.0040}$	$A_{148}^{\text{PS, ACT}}$	10.43	$10.7^{+1.2}_{-1.1}$	z_{re}	11.59	$10.8^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04147	$1.0415^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.4	$77.0^{+8.4}_{-8.9}$	H_0	69.0	> 67.3
τ	0.0963	$0.088^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.53	$7.89^{+3.0}_{-2.9}$	$10^9 A_s$	2.216	$2.18^{+0.10}_{-0.095}$
w	-1.03	$-1.49^{+0.57}_{-0.48}$	$A_{150}^{\text{PS, SPT}}$	9.97	$10.24^{+0.97}_{-1.0}$	$\Omega_m h^2$	0.14116	$0.1409^{+0.0040}_{-0.0038}$
n_s	0.9628	$0.962^{+0.012}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	73.2	75^{+9}_{-9}	$\Omega_m h^3$	0.0974	$0.120^{+0.024}_{-0.027}$
$\ln(10^{10} A_s)$	3.0982	$3.082^{+0.047}_{-0.044}$	$r_{95 \times 150}^{\text{PS}}$	0.798	> 0.689	Y_p	0.247769	$0.24778^{+0.00023}_{-0.00022}$
A_{100}^{PS}	203	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.547	$0.58^{+0.23}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8275	$1.826^{+0.020}_{-0.019}$
A_{143}^{PS}	72.0	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9083	$0.933^{+0.048}_{-0.043}$	Age/Gyr	13.770	$13.56^{+0.28}_{-0.22}$
A_{217}^{PS}	59.7	58^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.36}_{-0.39}$	z_*	1090.08	$1090.02^{+0.91}_{-0.89}$
A_{143}^{CIB}	3.24	$3.25^{+1.6}_{-1.7}$	$A_{\text{dust}}^{\text{ACTe}}$	0.845	$0.84^{+0.39}_{-0.38}$	r_*	144.99	$145.04^{+0.93}_{-0.97}$
A_{217}^{CIB}	52.5	50^{+10}_{-9}	y_{148}^{ACTs}	0.9919	$0.993^{+0.015}_{-0.014}$	$100\theta_*$	1.04162	$1.0417^{+0.0011}_{-0.0012}$
A_{143}^{tSZ}	4.66	< 4.95	y_{217}^{ACTs}	1.0038	$1.007^{+0.027}_{-0.026}$	z_{drag}	1059.51	$1059.6^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9882	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.72	$147.76^{+0.94}_{-0.97}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.845	y_{217}^{ACTe}	0.9620	$0.965^{+0.020}_{-0.020}$	k_D	0.13998	$0.1400^{+0.0011}_{-0.0011}$
γ^{CIB}	0.660	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9859	$0.985^{+0.040}_{-0.037}$	$100\theta_D$	0.16124	$0.16122^{+0.00062}_{-0.00064}$
c_{100}	1.00059	$1.00060^{+0.00079}_{-0.00076}$	y_{150}^{SPT}	0.9862	$0.989^{+0.019}_{-0.020}$	z_{eq}	3358	3352^{+96}_{-91}
c_{217}	0.99728	$0.9973^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0173	$1.027^{+0.049}_{-0.044}$	$100\theta_{\text{eq}}$	0.8213	$0.823^{+0.018}_{-0.018}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.834	Ω_Λ	0.703	> 0.686	$r_{\text{drag}}/D_V(0.57)$	0.07224	$0.0751^{+0.0034}_{-0.0040}$
A^{kSZ}	1.15	$4.72^{+3.6}_{-4.4}$	Ω_m	0.297	< 0.314			

Best-fit $\chi_{\text{eff}}^2 = 10517.36$; R-1 = 0.02339

χ_{eff}^2 : CMB - lowLike: 2014.62 lensing: 9.55 lowl: -6.91 CamSpec: 7808.76 highL: 691.23

18.5 base_w_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02209^{+0.00051}_{-0.00051}$	β_1	0.37	$0.4^{+1.1}_{-1.1}$	σ_8	0.895	$0.897^{+0.061}_{-0.060}$
$\Omega_c h^2$	0.1192	$0.1200^{+0.0050}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.29	$10.6^{+1.2}_{-1.2}$	z_{re}	11.60	$11.1^{+2.2}_{-2.1}$
$100\theta_{\text{MC}}$	1.04141	$1.0413^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	75.9	$76.7^{+8.4}_{-9.4}$	H_0	74.5	$74.7^{+5.0}_{-5.1}$
τ	0.0962	$0.090^{+0.026}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.29	$7.63^{+3.1}_{-2.9}$	$10^9 A_s$	2.220	$2.20^{+0.11}_{-0.11}$
w	-1.223	$-1.24^{+0.18}_{-0.19}$	$A_{150}^{\text{PS, SPT}}$	9.80	$10.10^{+0.97}_{-0.99}$	$\Omega_m h^2$	0.14204	$0.1427^{+0.0048}_{-0.0048}$
n_s	0.9604	$0.958^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	72.8	74^{+9}_{-9}	$\Omega_m h^3$	0.1058	$0.1066^{+0.0081}_{-0.0078}$
$\ln(10^{10} A_s)$	3.1000	$3.090^{+0.051}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.804	> 0.681	Y_P	0.247745	$0.24772^{+0.00022}_{-0.00022}$
A_{100}^{PS}	199	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.558	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8313	$1.834^{+0.024}_{-0.025}$
A_{143}^{PS}	71.7	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9098	$0.938^{+0.045}_{-0.045}$	Age/Gyr	13.679	$13.69^{+0.10}_{-0.097}$
A_{217}^{PS}	59.9	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.437	$0.43^{+0.36}_{-0.39}$	z_*	1090.24	$1090.38^{+0.98}_{-0.96}$
A_{143}^{CIB}	3.33	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.844	$0.84^{+0.38}_{-0.39}$	r_*	144.78	$144.6^{+1.2}_{-1.2}$
A_{217}^{CIB}	52.7	50^{+10}_{-9}	y_{148}^{ACTs}	0.9916	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04156	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.87	< 5.03	y_{217}^{ACTs}	1.0021	$1.006^{+0.027}_{-0.026}$	z_{drag}	1059.44	$1059.4^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.821	$0.82^{+0.14}_{-0.14}$	y_{148}^{ACTe}	0.9878	$0.989^{+0.015}_{-0.014}$	r_{drag}	147.53	$147.4^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.844	y_{217}^{ACTe}	0.9608	$0.964^{+0.020}_{-0.020}$	k_D	0.14013	$0.1402^{+0.0013}_{-0.0012}$
γ^{CIB}	0.660	$0.64^{+0.16}_{-0.17}$	y_{95}^{SPT}	0.9850	$0.984^{+0.039}_{-0.036}$	$100\theta_D$	0.16128	$0.16133^{+0.00062}_{-0.00062}$
c_{100}	1.00059	$1.00057^{+0.00081}_{-0.00078}$	y_{150}^{SPT}	0.9850	$0.988^{+0.019}_{-0.019}$	z_{eq}	3379	3395^{+110}_{-120}
c_{217}	0.99726	$0.9974^{+0.0026}_{-0.0027}$	y_{220}^{SPT}	1.0177	$1.025^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8173	$0.814^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.833	Ω_Λ	0.7442	$0.743^{+0.036}_{-0.038}$	$r_{\text{drag}}/D_V(0.57)$	0.07327	$0.0731^{+0.0017}_{-0.0017}$
A^{kSZ}	1.41	$5.35^{+3.9}_{-4.5}$	Ω_m	0.2558	$0.257^{+0.038}_{-0.036}$			

Best-fit $\chi_{\text{eff}}^2 = 10508.10$; R-1 = 0.02710

χ_{eff}^2 : CMB - lowLike: 2014.79 lowl: -6.87 CamSpec: 7807.60 highL: 692.44 Hubble - HST: 0.01

18.6 base_w_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02208	$0.02211^{+0.00051}_{-0.00052}$	β_1^1	0.45	$0.4^{+1.1}_{-1.1}$	σ_8	0.8696	$0.866^{+0.049}_{-0.047}$
$\Omega_c h^2$	0.1202	$0.1196^{+0.0050}_{-0.0050}$	$A_{148}^{\text{PS, ACT}}$	10.27	$10.6^{+1.2}_{-1.2}$	z_{re}	11.55	$11.1^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04132	$1.0414^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	75.1	$76.9^{+8.5}_{-9.0}$	H_0	70.90	$71.5^{+4.3}_{-4.0}$
τ	0.0949	$0.091^{+0.027}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.22	$7.63^{+3.0}_{-2.9}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.11}$
w	-1.124	$-1.13^{+0.14}_{-0.14}$	$A_{150}^{\text{PS, SPT}}$	9.75	$10.09^{+0.98}_{-0.98}$	$\Omega_m h^2$	0.14296	$0.1424^{+0.0048}_{-0.0049}$
n_s	0.9581	$0.959^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	72.3	74^{+9}_{-9}	$\Omega_m h^3$	0.1014	$0.1018^{+0.0061}_{-0.0059}$
$\ln(10^{10} A_s)$	3.0998	$3.090^{+0.050}_{-0.048}$	$r_{95 \times 150}^{\text{PS}}$	0.806	> 0.685	Y_p	0.247716	$0.24773^{+0.00022}_{-0.00023}$
A_{100}^{PS}	205	212^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.566	$0.59^{+0.25}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8357	$1.833^{+0.025}_{-0.025}$
A_{143}^{PS}	72.6	72^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9109	$0.937^{+0.046}_{-0.045}$	Age/Gyr	13.744	$13.73^{+0.11}_{-0.10}$
A_{217}^{PS}	58.4	59^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.434	$0.44^{+0.36}_{-0.39}$	z_*	1090.41	$1090.3^{+1.0}_{-0.94}$
A_{143}^{CIB}	3.31	$3.27^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.827	$0.85^{+0.38}_{-0.39}$	r_*	144.58	$144.7^{+1.2}_{-1.1}$
A_{217}^{CIB}	53.7	50^{+10}_{-9}	y_{148}^{ACTs}	0.9920	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04147	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.79	< 5.03	y_{217}^{ACTs}	1.0032	$1.006^{+0.026}_{-0.027}$	z_{drag}	1059.36	$1059.4^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.835	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9873	$0.989^{+0.014}_{-0.014}$	r_{drag}	147.34	$147.5^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.846	y_{217}^{ACTe}	0.9611	$0.964^{+0.022}_{-0.019}$	k_D	0.14027	$0.1402^{+0.0013}_{-0.0012}$
γ^{CIB}	0.673	$0.64^{+0.16}_{-0.17}$	y_{95}^{SPT}	0.9825	$0.984^{+0.039}_{-0.035}$	$100\theta_D$	0.16133	$0.16132^{+0.00065}_{-0.00063}$
c_{100}	1.00061	$1.00057^{+0.00080}_{-0.00084}$	y_{150}^{SPT}	0.9850	$0.988^{+0.019}_{-0.019}$	z_{eq}	3401	3387^{+110}_{-120}
c_{217}	0.99730	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0201	$1.024^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8131	$0.816^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.004	< 0.833	Ω_Λ	0.7156	$0.721^{+0.035}_{-0.037}$	$r_{\text{drag}}/D_V(0.57)$	0.07225	$0.0725^{+0.0019}_{-0.0018}$
A^{kSZ}	1.59	$5.34^{+4.0}_{-4.6}$	Ω_m	0.2844	$0.279^{+0.037}_{-0.035}$			

Best-fit $\chi_{\text{eff}}^2 = 10935.13$; R-1 = 0.04506

χ_{eff}^2 : CMB - lowLike: 2014.71 lowl: -6.18 CamSpec: 7807.79 highL: 692.32 SN - SNLS: 426.42

18.7 base_w_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02208^{+0.00053}_{-0.00053}$	β_1^1	0.42	$0.4^{+1.1}_{-1.1}$	σ_8	0.845	$0.856^{+0.057}_{-0.057}$
$\Omega_c h^2$	0.1196	$0.1201^{+0.0051}_{-0.0051}$	$A_{148}^{\text{PS, ACT}}$	10.35	$10.5^{+1.2}_{-1.1}$	z_{re}	11.54	$11.1^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04141	$1.0413^{+0.0012}_{-0.0013}$	$A_{218}^{\text{PS, ACT}}$	76.5	77^{+9}_{-9}	H_0	68.9	$70.1^{+5.1}_{-5.0}$
τ	0.0951	$0.090^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.49	$7.66^{+3.0}_{-2.9}$	$10^9 A_s$	2.217	$2.20^{+0.11}_{-0.10}$
w	-1.047	$-1.10^{+0.17}_{-0.17}$	$A_{150}^{\text{PS, SPT}}$	9.88	$10.08^{+0.99}_{-0.98}$	$\Omega_m h^2$	0.14238	$0.1428^{+0.0050}_{-0.0047}$
n_s	0.9594	$0.958^{+0.014}_{-0.014}$	$A_{220}^{\text{PS, SPT}}$	73.4	74^{+9}_{-9}	$\Omega_m h^3$	0.0980	$0.1000^{+0.0075}_{-0.0073}$
$\ln(10^{10} A_s)$	3.0987	$3.089^{+0.049}_{-0.047}$	$r_{95 \times 150}^{\text{PS}}$	0.784	> 0.685	Y_P	0.247731	$0.24771^{+0.00023}_{-0.00023}$
A_{100}^{PS}	204	213^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.538	$0.59^{+0.25}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8330	$1.835^{+0.024}_{-0.025}$
A_{143}^{PS}	72.4	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9137	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.778	$13.76^{+0.12}_{-0.12}$
A_{217}^{PS}	60.5	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.427	$0.44^{+0.36}_{-0.38}$	z_*	1090.31	$1090.41^{+0.99}_{-0.98}$
A_{143}^{CIB}	3.04	$3.28^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.39}_{-0.39}$	r_*	144.71	$144.6^{+1.1}_{-1.1}$
A_{217}^{CIB}	51.5	50^{+10}_{-9}	y_{148}^{ACTs}	0.9916	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04156	$1.0415^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.17	< 5.06	y_{217}^{ACTs}	1.0034	$1.005^{+0.026}_{-0.026}$	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{PS}}$	0.812	$0.82^{+0.15}_{-0.14}$	y_{148}^{ACTe}	0.9879	$0.988^{+0.015}_{-0.014}$	r_{drag}	147.47	$147.4^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.846	y_{217}^{ACTe}	0.9618	$0.964^{+0.022}_{-0.020}$	k_D	0.14017	$0.1402^{+0.0012}_{-0.0012}$
γ^{CIB}	0.652	$0.64^{+0.16}_{-0.17}$	y_{95}^{SPT}	0.9839	$0.983^{+0.038}_{-0.038}$	$100\theta_D$	0.16131	$0.16134^{+0.00065}_{-0.00064}$
c_{100}	1.00059	$1.00057^{+0.00077}_{-0.00084}$	y_{150}^{SPT}	0.9851	$0.987^{+0.019}_{-0.020}$	z_{eq}	3387	3398^{+120}_{-110}
c_{217}	0.99737	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0170	$1.024^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8157	$0.814^{+0.022}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.026	< 0.841	Ω_Λ	0.6997	$0.708^{+0.046}_{-0.046}$	$r_{\text{drag}}/D_V(0.57)$	0.07192	$0.0721^{+0.0020}_{-0.0018}$
A^{kSZ}	2.60	$5.32^{+4.0}_{-4.6}$	Ω_m	0.3003	$0.292^{+0.046}_{-0.046}$			

Best-fit $\chi_{\text{eff}}^2 = 10638.69$; R-1 = 0.04908

χ_{eff}^2 : CMB - lowLike: 2014.63 lowl: -6.28 CamSpec: 7807.96 highL: 692.36 SN - Union2.1: 129.89

18.8 base_w_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.02211^{+0.00067}_{-0.00062}$	$r_{143 \times 217}^{\text{CIB}}$	0.620	< 0.799	$\Omega_m h^3$	0.1088	$0.120^{+0.025}_{-0.029}$
$\Omega_c h^2$	0.1198	$0.1195^{+0.0061}_{-0.0063}$	γ^{CIB}	0.545	$0.53^{+0.23}_{-0.26}$	Y_P	0.247743	$0.24773^{+0.00028}_{-0.00027}$
$100\theta_{\text{MC}}$	1.04137	$1.0414^{+0.0014}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8395	$1.834^{+0.029}_{-0.030}$
τ	0.092	$0.097^{+0.073}_{-0.081}$	c_{217}	0.99645	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.654	$13.58^{+0.31}_{-0.24}$
w	-1.29	$-1.52^{+0.64}_{-0.54}$	$\xi^{\text{tSZ-CIB}}$	0.19	—	z_*	1090.29	$1090.3^{+1.3}_{-1.3}$
n_s	0.9636	$0.962^{+0.020}_{-0.019}$	A^{kSZ}	0.7	—	r_*	144.66	$144.8^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.097	$3.10^{+0.14}_{-0.14}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04151	$1.0415^{+0.0013}_{-0.0013}$
A_{100}^{PS}	152	166^{+100}_{-100}	Ω_Λ	0.756	> 0.669	z_{drag}	1059.47	$1059.4^{+1.3}_{-1.2}$
A_{143}^{PS}	65.0	53^{+30}_{-30}	Ω_m	0.244	< 0.331	r_{drag}	147.40	$147.5^{+1.3}_{-1.2}$
A_{217}^{PS}	121.0	107^{+30}_{-30}	σ_8	0.916	$0.98^{+0.16}_{-0.19}$	k_D	0.14026	$0.1401^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	0.0	—	z_{re}	11.3	$11.4^{+6.4}_{-7.0}$	$100\theta_D$	0.16126	$0.16132^{+0.00072}_{-0.00071}$
A_{217}^{CIB}	25	28^{+20}_{-10}	H_0	76.4	> 65.7	z_{eq}	3391	3384^{+130}_{-140}
A_{143}^{tSZ}	5.81	—	$10^9 A_s$	2.213	$2.23^{+0.32}_{-0.32}$	$100\theta_{\text{eq}}$	0.8151	$0.817^{+0.028}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.908	> 0.741	$\Omega_m h^2$	0.1425	$0.1423^{+0.0056}_{-0.0058}$	$r_{\text{drag}}/D_V(0.57)$	0.07347	$0.0745^{+0.0040}_{-0.0044}$

Best-fit $\chi_{\text{eff}}^2 = 7789.75$; R-1 = 0.01369

χ_{eff}^2 : CMB - lowl: -7.62 CamSpec: 7796.77

18.9 base_w_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02216	$0.02218^{+0.00068}_{-0.00066}$	$r_{143 \times 217}^{\text{CIB}}$	0.55	—	$\Omega_m h^3$	0.1232	$0.120^{+0.025}_{-0.028}$
$\Omega_c h^2$	0.1190	$0.1186^{+0.0059}_{-0.0064}$	γ^{CIB}	0.514	$0.53^{+0.23}_{-0.26}$	Y_P	0.247751	$0.24776^{+0.00029}_{-0.00029}$
$100\theta_{\text{MC}}$	1.04140	$1.0414^{+0.0013}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8340	$1.831^{+0.028}_{-0.030}$
τ	0.069	$0.079^{+0.058}_{-0.065}$	c_{217}	0.99631	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.534	$13.57^{+0.30}_{-0.24}$
w	-1.58	$-1.50^{+0.61}_{-0.53}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.20	$1090.1^{+1.2}_{-1.3}$
n_s	0.9618	$0.963^{+0.019}_{-0.018}$	A^{kSZ}	0.0	—	r_*	144.83	$144.9^{+1.3}_{-1.2}$
$\ln(10^{10} A_s)$	3.047	$3.07^{+0.11}_{-0.11}$	β_1^1	0.59	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04155	$1.0416^{+0.0013}_{-0.0013}$
A_{100}^{PS}	140	170^{+100}_{-100}	Ω_Λ	0.812	> 0.678	z_{drag}	1059.47	$1059.5^{+1.3}_{-1.3}$
A_{143}^{PS}	47	51^{+30}_{-30}	Ω_m	0.188	< 0.322	r_{drag}	147.57	$147.7^{+1.3}_{-1.2}$
A_{217}^{PS}	111.3	105^{+30}_{-30}	σ_8	0.972	$0.96^{+0.14}_{-0.16}$	k_D	0.14010	$0.1400^{+0.0012}_{-0.0013}$
A_{143}^{CIB}	6.05	—	z_{re}	9.10	$9.83^{+5.2}_{-5.9}$	$100\theta_D$	0.16126	$0.16127^{+0.00069}_{-0.00072}$
A_{217}^{CIB}	29.9	29^{+20}_{-10}	H_0	86.8	> 66.5	z_{eq}	3374	3363^{+130}_{-140}
A_{143}^{tSZ}	9.70	—	$10^9 A_s$	2.105	$2.15^{+0.24}_{-0.24}$	$100\theta_{\text{eq}}$	0.8182	$0.820^{+0.028}_{-0.027}$
$r_{143 \times 217}^{\text{PS}}$	0.887	> 0.728	$\Omega_m h^2$	0.1418	$0.1414^{+0.0055}_{-0.0060}$	$r_{\text{drag}}/D_V(0.57)$	0.07520	$0.0748^{+0.0041}_{-0.0043}$

Best-fit $\chi^2_{\text{eff}} = 7799.39$; R-1 = 0.02583

χ^2_{eff} : CMB - lensing: 8.94 lowl: -8.43 CamSpec: 7798.01

18.10 base_w_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02206	$0.02199^{+0.00063}_{-0.00057}$	$r_{143 \times 217}^{\text{CIB}}$	0.421	< 0.803	$\Omega_m h^3$	0.1004	$0.102^{+0.011}_{-0.011}$
$\Omega_c h^2$	0.1204	$0.1209^{+0.0052}_{-0.0055}$	γ^{CIB}	0.536	$0.54^{+0.24}_{-0.26}$	Y_P	0.247706	$0.24767^{+0.00027}_{-0.00025}$
$100\theta_{\text{MC}}$	1.04121	$1.0412^{+0.0013}_{-0.0012}$	c_{100}	1.00058	$1.00058^{+0.00076}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8395	$1.840^{+0.026}_{-0.027}$
τ	0.093	$0.086^{+0.065}_{-0.075}$	c_{217}	0.99634	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.761	$13.76^{+0.10}_{-0.097}$
w	-1.105	$-1.14^{+0.25}_{-0.27}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.46	$1090.6^{+1.1}_{-1.1}$
n_s	0.9609	$0.958^{+0.017}_{-0.017}$	A^{kSZ}	0.0	—	r_*	144.55	$144.5^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.099	$3.08^{+0.14}_{-0.13}$	β_1^1	0.64	$0.6^{+1.2}_{-1.1}$	$100\theta_*$	1.04137	$1.0413^{+0.0013}_{-0.0012}$
A_{100}^{PS}	140	172^{+100}_{-100}	Ω_Λ	0.7094	$0.713^{+0.043}_{-0.041}$	z_{drag}	1059.32	$1059.2^{+1.2}_{-1.2}$
A_{143}^{PS}	51.7	54^{+30}_{-30}	Ω_m	0.2906	$0.287^{+0.041}_{-0.043}$	r_{drag}	147.32	$147.3^{+1.2}_{-1.1}$
A_{217}^{PS}	116.8	107^{+30}_{-30}	σ_8	0.865	$0.869^{+0.084}_{-0.074}$	k_D	0.14028	$0.1403^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	4.19	—	z_{re}	11.4	$10.5^{+6.3}_{-6.8}$	$100\theta_D$	0.16134	$0.16143^{+0.00069}_{-0.00071}$
A_{217}^{CIB}	27.8	29^{+20}_{-10}	H_0	70.2	$70.9^{+6.0}_{-5.8}$	z_{eq}	3404	3415^{+120}_{-120}
A_{143}^{tSZ}	8.84	—	$10^9 A_s$	2.217	$2.19^{+0.30}_{-0.29}$	$100\theta_{\text{eq}}$	0.8123	$0.810^{+0.023}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.902	> 0.742	$\Omega_m h^2$	0.1431	$0.1436^{+0.0049}_{-0.0051}$	$r_{\text{drag}}/D_V(0.57)$	0.07203	$0.0720^{+0.0013}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 7791.75$; R-1 = 0.03817

χ_{eff}^2 : BAO - DR7: 0.24 6DF: 0.29 DR9: 0.52 CMB - lowl: -6.79 CamSpec: 7796.81

18.11 base_w_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02208^{+0.00065}_{-0.00061}$	$r_{143 \times 217}^{\text{CIB}}$	0.426	< 0.804	$\Omega_m h^3$	0.1064	$0.1064^{+0.0084}_{-0.0079}$
$\Omega_c h^2$	0.1195	$0.1198^{+0.0060}_{-0.0060}$	γ^{CIB}	0.525	$0.53^{+0.24}_{-0.26}$	Y_P	0.247730	$0.24772^{+0.00028}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04136	$1.0413^{+0.0013}_{-0.0013}$	c_{100}	1.00059	$1.00058^{+0.00076}_{-0.00076}$	$10^9 A_s e^{-2\tau}$	1.8351	$1.836^{+0.028}_{-0.029}$
τ	0.095	$0.095^{+0.073}_{-0.079}$	c_{217}	0.99627	$0.9964^{+0.0027}_{-0.0026}$	Age/Gyr	13.679	$13.69^{+0.11}_{-0.11}$
w	-1.237	$-1.24^{+0.20}_{-0.20}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.31	$1090.4^{+1.2}_{-1.2}$
n_s	0.9628	$0.961^{+0.019}_{-0.019}$	A^{kSZ}	0.0	—	r_*	144.74	$144.7^{+1.3}_{-1.2}$
$\ln(10^{10} A_s)$	3.100	$3.10^{+0.14}_{-0.14}$	β_1^1	0.58	$0.5^{+1.1}_{-1.2}$	$100\theta_*$	1.04151	$1.0415^{+0.0013}_{-0.0013}$
A_{100}^{PS}	139	167^{+100}_{-100}	Ω_Λ	0.7456	$0.743^{+0.037}_{-0.038}$	z_{drag}	1059.40	$1059.3^{+1.2}_{-1.2}$
A_{143}^{PS}	51.8	53^{+30}_{-30}	Ω_m	0.2544	$0.257^{+0.038}_{-0.037}$	r_{drag}	147.50	$147.5^{+1.3}_{-1.2}$
A_{217}^{PS}	117.1	108^{+30}_{-30}	σ_8	0.901	$0.902^{+0.072}_{-0.069}$	k_D	0.14014	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	4.27	—	z_{re}	11.5	$11.3^{+6.5}_{-6.9}$	$100\theta_D$	0.16131	$0.16135^{+0.00071}_{-0.00070}$
A_{217}^{CIB}	27.5	28^{+20}_{-10}	H_0	74.8	$74.6^{+5.1}_{-5.0}$	z_{eq}	3384	3391^{+130}_{-130}
A_{143}^{tSZ}	8.76	—	$10^9 A_s$	2.220	$2.23^{+0.32}_{-0.31}$	$100\theta_{\text{eq}}$	0.8162	$0.815^{+0.026}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.896	> 0.739	$\Omega_m h^2$	0.1423	$0.1426^{+0.0055}_{-0.0056}$	$r_{\text{drag}}/D_V(0.57)$	0.07324	$0.0731^{+0.0020}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 7790.04$; R-1 = 0.02458

χ_{eff}^2 : CMB - lowl: -7.37 CamSpec: 7796.60 Hubble - HST: 0.04

18.12 base_w_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02213	$0.02212^{+0.00065}_{-0.00064}$	$r_{143 \times 217}^{\text{CIB}}$	0.445	< 0.807	$\Omega_m h^3$	0.1018	$0.1018^{+0.0061}_{-0.0062}$
$\Omega_c h^2$	0.1195	$0.1193^{+0.0059}_{-0.0059}$	γ^{CIB}	0.522	$0.53^{+0.24}_{-0.26}$	Y_P	0.247735	$0.24773^{+0.00028}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04136	$1.0414^{+0.0014}_{-0.0013}$	c_{100}	1.00058	$1.00059^{+0.00077}_{-0.00075}$	$10^9 A_s e^{-2\tau}$	1.8354	$1.833^{+0.030}_{-0.030}$
τ	0.095	$0.099^{+0.076}_{-0.073}$	c_{217}	0.99631	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.729	$13.73^{+0.12}_{-0.12}$
w	-1.134	$-1.13^{+0.14}_{-0.14}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.29	$1090.3^{+1.2}_{-1.2}$
n_s	0.9632	$0.963^{+0.019}_{-0.017}$	A^{kSZ}	0.0	—	r_*	144.75	$144.8^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.100	$3.11^{+0.14}_{-0.14}$	β_1^1	0.62	$0.5^{+1.1}_{-1.2}$	$100\theta_*$	1.04151	$1.0416^{+0.0013}_{-0.0012}$
A_{100}^{PS}	134	168^{+100}_{-100}	Ω_Λ	0.7225	$0.722^{+0.037}_{-0.040}$	z_{drag}	1059.40	$1059.4^{+1.3}_{-1.2}$
A_{143}^{PS}	52.8	53^{+30}_{-20}	Ω_m	0.2775	$0.278^{+0.040}_{-0.037}$	r_{drag}	147.50	$147.6^{+1.3}_{-1.2}$
A_{217}^{PS}	117.6	107^{+30}_{-30}	σ_8	0.872	$0.873^{+0.066}_{-0.063}$	k_D	0.14014	$0.1401^{+0.0013}_{-0.0012}$
A_{143}^{CIB}	3.25	—	z_{re}	11.5	$11.6^{+6.4}_{-6.6}$	$100\theta_D$	0.16130	$0.16133^{+0.00070}_{-0.00069}$
A_{217}^{CIB}	27.1	28^{+20}_{-10}	H_0	71.59	$71.6^{+4.5}_{-4.3}$	z_{eq}	3383	3379^{+130}_{-130}
A_{143}^{tSZ}	9.12	—	$10^9 A_s$	2.219	$2.24^{+0.33}_{-0.31}$	$100\theta_{\text{eq}}$	0.8164	$0.817^{+0.026}_{-0.025}$
$r_{143 \times 217}^{\text{PS}}$	0.894	> 0.739	$\Omega_m h^2$	0.1422	$0.1421^{+0.0055}_{-0.0056}$	$r_{\text{drag}}/D_V(0.57)$	0.07260	$0.0726^{+0.0022}_{-0.0021}$

Best-fit $\chi^2_{\text{eff}} = 8216.77$; R-1 = 0.02840

χ^2_{eff} : CMB - lowl: -7.25 CamSpec: 7796.85 SN - SNLS: 426.37

18.13 base_w_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02206^{+0.00067}_{-0.00060}$	$r_{143 \times 217}^{\text{CIB}}$	0.671	< 0.807	$\Omega_m h^3$	0.0999	$0.1000^{+0.0074}_{-0.0073}$
$\Omega_c h^2$	0.1195	$0.1199^{+0.0058}_{-0.0060}$	γ^{CIB}	0.565	$0.54^{+0.24}_{-0.26}$	Y_P	0.247726	$0.24771^{+0.00029}_{-0.00026}$
$100\theta_{\text{MC}}$	1.04135	$1.0413^{+0.0013}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00075}$	$10^9 A_s e^{-2\tau}$	1.8380	$1.836^{+0.028}_{-0.030}$
τ	0.094	$0.094^{+0.071}_{-0.079}$	c_{217}	0.99641	$0.9963^{+0.0027}_{-0.0027}$	Age/Gyr	13.756	$13.76^{+0.12}_{-0.13}$
w	-1.091	$-1.10^{+0.17}_{-0.18}$	$\xi^{\text{tSZ-CIB}}$	0.36	—	z_*	1090.32	$1090.4^{+1.2}_{-1.2}$
n_s	0.9644	$0.961^{+0.019}_{-0.018}$	A^{kSZ}	0.7	—	r_*	144.74	$144.7^{+1.3}_{-1.2}$
$\ln(10^{10} A_s)$	3.099	$3.10^{+0.14}_{-0.14}$	β_1^1	0.67	$0.5^{+1.2}_{-1.1}$	$100\theta_*$	1.04149	$1.0415^{+0.0013}_{-0.0012}$
A_{100}^{PS}	154	170^{+100}_{-100}	Ω_Λ	0.7111	$0.709^{+0.044}_{-0.047}$	z_{drag}	1059.36	$1059.3^{+1.3}_{-1.2}$
A_{143}^{PS}	65.7	53^{+30}_{-30}	Ω_m	0.2889	$0.291^{+0.048}_{-0.044}$	r_{drag}	147.50	$147.5^{+1.3}_{-1.2}$
A_{217}^{PS}	121.6	107^{+30}_{-30}	σ_8	0.859	$0.860^{+0.071}_{-0.066}$	k_D	0.14013	$0.1401^{+0.0013}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.4	$11.2^{+6.4}_{-6.9}$	$100\theta_D$	0.16132	$0.16138^{+0.00069}_{-0.00072}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	70.2	$70.1^{+5.2}_{-4.8}$	z_{eq}	3385	3393^{+130}_{-130}
A_{143}^{tSZ}	5.59	—	$10^9 A_s$	2.217	$2.22^{+0.32}_{-0.31}$	$100\theta_{\text{eq}}$	0.8160	$0.815^{+0.026}_{-0.026}$
$r_{143 \times 217}^{\text{PS}}$	0.944	> 0.740	$\Omega_m h^2$	0.1423	$0.1426^{+0.0054}_{-0.0056}$	$r_{\text{drag}}/D_V(0.57)$	0.07225	$0.0721^{+0.0022}_{-0.0020}$

Best-fit $\chi^2_{\text{eff}} = 7920.61$; R-1 = 0.02847

χ^2_{eff} : CMB - lowl: -7.38 CamSpec: 7797.66 SN - Union2.1: 129.88

18.14 base_w_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_{\text{b}} h^2$	0.02265	$0.0227^{+0.0011}_{-0.0010}$	σ_8	0.807	$0.81^{+0.26}_{-0.24}$	r_*	145.58	$145.9^{+2.3}_{-2.3}$
$\Omega_{\text{c}} h^2$	0.1147	$0.1136^{+0.0095}_{-0.0093}$	z_{re}	10.85	$10.7^{+2.3}_{-2.2}$	$100\theta_*$	1.04063	$1.0403^{+0.0045}_{-0.0045}$
$100\theta_{\text{MC}}$	1.04053	$1.0402^{+0.0045}_{-0.0046}$	H_0	68.3	71^{+30}_{-20}	z_{drag}	1060.28	$1060.2^{+2.3}_{-2.3}$
τ	0.0903	$0.089^{+0.029}_{-0.028}$	$10^9 A_{\text{s}}$	2.224	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.18	$148.5^{+2.4}_{-2.4}$
w	-0.97	> -1.75	$\Omega_{\text{m}} h^2$	0.1380	$0.1369^{+0.0092}_{-0.0090}$	k_{D}	0.13983	$0.1395^{+0.0027}_{-0.0027}$
n_{s}	0.9750	$0.975^{+0.030}_{-0.027}$	$\Omega_{\text{m}} h^3$	0.0943	$0.097^{+0.038}_{-0.033}$	$100\theta_{\text{D}}$	0.16060	$0.1606^{+0.0011}_{-0.00099}$
$\ln(10^{10} A_{\text{s}})$	3.102	$3.092^{+0.062}_{-0.058}$	Y_{P}	0.247958	$0.24797^{+0.00044}_{-0.00044}$	z_{eq}	3283	3256^{+220}_{-210}
A_{tSZ}	0.00	—	$10^9 A_{\text{s}} e^{-2\tau}$	1.857	$1.844^{+0.061}_{-0.061}$	$100\theta_{\text{eq}}$	0.8358	$0.842^{+0.045}_{-0.042}$
Ω_{Λ}	0.704	> 0.492	Age/Gyr	13.78	$13.84^{+0.68}_{-0.55}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.0726	$0.0724^{+0.0068}_{-0.0076}$
Ω_{m}	0.296	< 0.508	z_*	1089.21	$1089.1^{+1.8}_{-1.8}$			

Best-fit $\chi^2_{\text{eff}} = 7557.84$; R-1 = 0.00843

χ^2_{eff} : CMB - WMAP: 7557.84

18.15 base_w_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02261	$0.0226^{+0.0010}_{-0.0010}$	σ_8	0.806	$0.81^{+0.13}_{-0.12}$	r_*	145.45	$145.5^{+2.2}_{-2.1}$
$\Omega_c h^2$	0.1153	$0.1152^{+0.0087}_{-0.0084}$	z_{re}	10.77	$10.6^{+2.2}_{-2.1}$	$100\theta_*$	1.04026	$1.0399^{+0.0043}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04015	$1.0398^{+0.0043}_{-0.0045}$	H_0	67.7	$68.1^{+6.5}_{-5.8}$	z_{drag}	1060.24	$1060.1^{+2.3}_{-2.2}$
τ	0.0890	$0.087^{+0.027}_{-0.026}$	$10^9 A_s$	2.222	$2.20^{+0.14}_{-0.12}$	r_{drag}	148.06	$148.2^{+2.3}_{-2.2}$
w	-0.960	$-0.98^{+0.28}_{-0.32}$	$\Omega_m h^2$	0.1386	$0.1384^{+0.0084}_{-0.0082}$	k_D	0.13993	$0.1398^{+0.0025}_{-0.0026}$
n_s	0.9738	$0.970^{+0.028}_{-0.026}$	$\Omega_m h^3$	0.0938	$0.094^{+0.014}_{-0.012}$	$100\theta_D$	0.16057	$0.1606^{+0.0010}_{-0.0010}$
$\ln(10^{10} A_s)$	3.101	$3.093^{+0.060}_{-0.057}$	Y_P	0.247942	$0.24792^{+0.00043}_{-0.00043}$	z_{eq}	3296	3292^{+200}_{-200}
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.859	$1.852^{+0.057}_{-0.056}$	$100\theta_{\text{eq}}$	0.8328	$0.834^{+0.040}_{-0.038}$
Ω_Λ	0.6975	$0.701^{+0.045}_{-0.040}$	Age/Gyr	13.802	$13.82^{+0.18}_{-0.18}$	$r_{\text{drag}}/D_V(0.57)$	0.07228	$0.0723^{+0.0014}_{-0.0014}$
Ω_m	0.3025	$0.299^{+0.040}_{-0.045}$	z_*	1089.31	$1089.4^{+1.6}_{-1.7}$			

Best-fit $\chi^2_{\text{eff}} = 7559.25$; R-1 = 0.02245

χ^2_{eff} : BAO - 6DF: 0.01 DR7: 0.52 DR9: 0.88 CMB - WMAP: 7557.84

18.16 base_w_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02271	$0.0226^{+0.0010}_{-0.00098}$	σ_8	0.848	$0.849^{+0.097}_{-0.092}$	r_*	145.82	$145.8^{+2.4}_{-2.4}$
$\Omega_c h^2$	0.1137	$0.1140^{+0.0094}_{-0.0089}$	z_{re}	10.98	$10.6^{+2.2}_{-2.2}$	$100\theta_*$	1.04054	$1.0402^{+0.0044}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04044	$1.0401^{+0.0045}_{-0.0045}$	H_0	73.8	$74.0^{+5.1}_{-5.0}$	z_{drag}	1060.31	$1060.1^{+2.2}_{-2.2}$
τ	0.0927	$0.088^{+0.029}_{-0.025}$	$10^9 A_s$	2.221	$2.20^{+0.14}_{-0.13}$	r_{drag}	148.41	$148.5^{+2.5}_{-2.4}$
w	-1.119	$-1.14^{+0.22}_{-0.23}$	$\Omega_m h^2$	0.1370	$0.1372^{+0.0092}_{-0.0086}$	k_D	0.13963	$0.1395^{+0.0027}_{-0.0027}$
n_s	0.9749	$0.972^{+0.027}_{-0.025}$	$\Omega_m h^3$	0.1012	$0.102^{+0.010}_{-0.0096}$	$100\theta_D$	0.16055	$0.1606^{+0.0010}_{-0.0011}$
$\ln(10^{10} A_s)$	3.101	$3.091^{+0.061}_{-0.058}$	Y_P	0.247983	$0.24794^{+0.00042}_{-0.00042}$	z_{eq}	3259	3263^{+220}_{-210}
A_{tSZ}	1.01	—	$10^9 A_s e^{-2\tau}$	1.845	$1.845^{+0.062}_{-0.060}$	$100\theta_{\text{eq}}$	0.8405	$0.840^{+0.042}_{-0.042}$
Ω_Λ	0.7487	$0.748^{+0.037}_{-0.039}$	Age/Gyr	13.671	$13.69^{+0.19}_{-0.19}$	$r_{\text{drag}}/D_V(0.57)$	0.07435	$0.0742^{+0.0027}_{-0.0028}$
Ω_m	0.2513	$0.252^{+0.039}_{-0.037}$	z_*	1089.05	$1089.2^{+1.7}_{-1.7}$			

Best-fit $\chi^2_{\text{eff}} = 7558.20$; R-1 = 0.02059

χ^2_{eff} : CMB - WMAP: 7558.19 Hubble - HST: 0.01

18.17 base_w_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02271	$0.0227^{+0.0010}_{-0.00099}$	σ_8	0.831	$0.825^{+0.074}_{-0.074}$	r_*	145.89	$146.0^{+2.3}_{-2.3}$
$\Omega_c h^2$	0.1134	$0.1130^{+0.0092}_{-0.0086}$	z_{re}	10.91	$10.6^{+2.2}_{-2.1}$	$100\theta_*$	1.04040	$1.0404^{+0.0044}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04029	$1.0403^{+0.0045}_{-0.0044}$	H_0	72.20	$72.2^{+4.7}_{-4.6}$	z_{drag}	1060.31	$1060.2^{+2.3}_{-2.2}$
τ	0.0918	$0.089^{+0.029}_{-0.027}$	$10^9 A_s$	2.215	$2.20^{+0.14}_{-0.14}$	r_{drag}	148.47	$148.7^{+2.4}_{-2.4}$
w	-1.070	$-1.07^{+0.15}_{-0.15}$	$\Omega_m h^2$	0.1368	$0.1363^{+0.0088}_{-0.0085}$	k_D	0.13956	$0.1393^{+0.0027}_{-0.0027}$
n_s	0.9751	$0.974^{+0.026}_{-0.025}$	$\Omega_m h^3$	0.0987	$0.0984^{+0.0076}_{-0.0077}$	$100\theta_D$	0.16053	$0.1606^{+0.0010}_{-0.0010}$
$\ln(10^{10} A_s)$	3.098	$3.090^{+0.061}_{-0.058}$	Y_P	0.247985	$0.24796^{+0.00042}_{-0.00042}$	z_{eq}	3252	3242^{+210}_{-200}
A_{tSZ}	1.04	—	$10^9 A_s e^{-2\tau}$	1.844	$1.840^{+0.060}_{-0.060}$	$100\theta_{\text{eq}}$	0.8416	$0.844^{+0.042}_{-0.041}$
Ω_Λ	0.7377	$0.737^{+0.040}_{-0.045}$	Age/Gyr	13.703	$13.71^{+0.20}_{-0.22}$	$r_{\text{drag}}/D_V(0.57)$	0.07399	$0.0741^{+0.0030}_{-0.0031}$
Ω_m	0.2623	$0.263^{+0.045}_{-0.040}$	z_*	1089.02	$1089.1^{+1.6}_{-1.6}$			

Best-fit $\chi^2_{\text{eff}} = 7983.98$; R-1 = 0.02241

χ^2_{eff} : CMB - WMAP: 7558.10 SN - SNLS: 425.88

18.18 base_w_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02265	$0.0226^{+0.0010}_{-0.0010}$	σ_8	0.822	$0.812^{+0.082}_{-0.083}$	r_*	145.73	$145.9^{+2.4}_{-2.3}$
$\Omega_c h^2$	0.1142	$0.1138^{+0.0091}_{-0.0090}$	z_{re}	11.00	$10.6^{+2.2}_{-2.1}$	$100\theta_*$	1.04030	$1.0402^{+0.0043}_{-0.0044}$
$100\theta_{\text{MC}}$	1.04020	$1.0401^{+0.0044}_{-0.0044}$	H_0	70.3	$70.0^{+5.5}_{-5.4}$	z_{drag}	1060.24	$1060.1^{+2.3}_{-2.2}$
τ	0.0923	$0.088^{+0.028}_{-0.027}$	$10^9 A_s$	2.222	$2.20^{+0.13}_{-0.14}$	r_{drag}	148.33	$148.5^{+2.5}_{-2.4}$
w	-1.027	$-1.02^{+0.18}_{-0.19}$	$\Omega_m h^2$	0.1375	$0.1371^{+0.0089}_{-0.0088}$	k_D	0.13967	$0.1395^{+0.0027}_{-0.0028}$
n_s	0.9733	$0.973^{+0.027}_{-0.026}$	$\Omega_m h^3$	0.0967	$0.0960^{+0.0089}_{-0.0087}$	$100\theta_D$	0.16057	$0.1606^{+0.0010}_{-0.00099}$
$\ln(10^{10} A_s)$	3.101	$3.091^{+0.060}_{-0.058}$	Y_P	0.247957	$0.24795^{+0.00043}_{-0.00043}$	z_{eq}	3270	3260^{+210}_{-210}
A_{tSZ}	1.09	—	$10^9 A_s e^{-2\tau}$	1.847	$1.844^{+0.061}_{-0.062}$	$100\theta_{\text{eq}}$	0.8379	$0.840^{+0.044}_{-0.041}$
Ω_Λ	0.722	$0.719^{+0.050}_{-0.052}$	Age/Gyr	13.746	$13.76^{+0.22}_{-0.22}$	$r_{\text{drag}}/D_V(0.57)$	0.07328	$0.0733^{+0.0031}_{-0.0029}$
Ω_m	0.278	$0.281^{+0.052}_{-0.050}$	z_*	1089.17	$1089.2^{+1.7}_{-1.7}$			

Best-fit $\chi^2_{\text{eff}} = 7687.97$; R-1 = 0.01811

χ^2_{eff} : CMB - WMAP: 7558.11 SN - Union2.1: 129.85

18.19 base_w_planck_lowl_lowLike_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02209	$0.02199^{+0.00052}_{-0.00052}$	$r_{143 \times 217}^{\text{CIB}}$	0.397	< 0.809	$\Omega_m h^3$	0.0992	$0.101^{+0.010}_{-0.010}$
$\Omega_c h^2$	0.11960	$0.1207^{+0.0048}_{-0.0048}$	γ^{CIB}	0.547	$0.53^{+0.23}_{-0.25}$	Y_P	0.247721	$0.24768^{+0.00022}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04128	$1.0412^{+0.0012}_{-0.0012}$	c_{100}	1.00060	$1.00058^{+0.00079}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8383	$1.839^{+0.024}_{-0.024}$
τ	0.0935	$0.088^{+0.026}_{-0.024}$	c_{217}	0.99635	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.767	$13.76^{+0.10}_{-0.098}$
w	-1.076	$-1.13^{+0.24}_{-0.25}$	$\xi^{\text{tSZ-CIB}}$	0.39	—	z_*	1090.34	$1090.57^{+0.97}_{-0.96}$
n_s	0.9641	$0.958^{+0.013}_{-0.013}$	A^{kSZ}	0.8	—	r_*	144.74	$144.5^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0984	$3.088^{+0.050}_{-0.046}$	β_1^1	0.67	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04144	$1.0414^{+0.0012}_{-0.0012}$
A_{100}^{PS}	149	171^{+100}_{-100}	Ω_Λ	0.7068	$0.713^{+0.042}_{-0.040}$	z_{drag}	1059.36	$1059.2^{+1.1}_{-1.1}$
A_{143}^{PS}	64.3	54^{+30}_{-30}	Ω_m	0.2932	$0.287^{+0.040}_{-0.042}$	r_{drag}	147.50	$147.3^{+1.1}_{-1.1}$
A_{217}^{PS}	123.4	107^{+30}_{-30}	σ_8	0.855	$0.868^{+0.080}_{-0.078}$	k_D	0.14012	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.40	$11.0^{+2.2}_{-2.2}$	$100\theta_D$	0.16132	$0.16143^{+0.00066}_{-0.00064}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	69.7	$70.8^{+5.8}_{-5.6}$	z_{eq}	3386	3410^{+110}_{-110}
A_{143}^{tSZ}	5.86	—	$10^9 A_s$	2.216	$2.19^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8158	$0.811^{+0.021}_{-0.020}$
$r_{143 \times 217}^{\text{PS}}$	0.947	> 0.736	$\Omega_m h^2$	0.14234	$0.1433^{+0.0046}_{-0.0046}$	$r_{\text{drag}}/D_V(0.57)$	0.07211	$0.0720^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9806.39$; R-1 = 0.00765

χ_{eff}^2 : BAO - DR9: 0.62 DR7: 0.27 6DF: 0.21 CMB - lowLike: 2014.51 lowl: -7.31 CamSpec: 7797.50

18.20 base_w_planck_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02208^{+0.00050}_{-0.00051}$	$r_{143 \times 217}^{\text{CIB}}$	0.563	< 0.812	$\Omega_m h^3$	0.0968	$0.0990^{+0.0085}_{-0.0080}$
$\Omega_c h^2$	0.11816	$0.1191^{+0.0038}_{-0.0039}$	γ^{CIB}	0.539	$0.53^{+0.24}_{-0.26}$	Y_P	0.247781	$0.24772^{+0.00022}_{-0.00022}$
$100\theta_{\text{MC}}$	1.04148	$1.0413^{+0.0012}_{-0.0011}$	c_{100}	1.00058	$1.00059^{+0.00080}_{-0.00081}$	$10^9 A_s e^{-2\tau}$	1.8329	$1.832^{+0.019}_{-0.020}$
τ	0.0942	$0.087^{+0.026}_{-0.025}$	c_{217}	0.99644	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.774	$13.769^{+0.098}_{-0.096}$
w	-1.019	$-1.07^{+0.19}_{-0.20}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1090.03	$1090.31^{+0.88}_{-0.85}$
n_s	0.9672	$0.961^{+0.012}_{-0.012}$	A^{kSZ}	1.03	—	r_*	145.00	$144.87^{+0.93}_{-0.89}$
$\ln(10^{10} A_s)$	3.0969	$3.082^{+0.048}_{-0.043}$	β_1^1	0.69	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04161	$1.0415^{+0.0011}_{-0.0011}$
A_{100}^{PS}	154	171^{+100}_{-100}	Ω_Λ	0.7008	$0.708^{+0.038}_{-0.037}$	z_{drag}	1059.55	$1059.3^{+1.1}_{-1.1}$
A_{143}^{PS}	63.2	53^{+30}_{-30}	Ω_m	0.2992	$0.292^{+0.037}_{-0.038}$	r_{drag}	147.72	$147.64^{+0.95}_{-0.92}$
A_{217}^{PS}	119.1	106^{+30}_{-30}	σ_8	0.834	$0.844^{+0.060}_{-0.059}$	k_D	0.14000	$0.1400^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	0.0	—	z_{re}	11.40	$10.8^{+2.2}_{-2.1}$	$100\theta_D$	0.16120	$0.16137^{+0.00066}_{-0.00063}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	68.66	$69.8^{+5.0}_{-4.8}$	z_{eq}	3355	3374^{+87}_{-88}
A_{143}^{tSZ}	5.69	—	$10^9 A_s$	2.213	$2.18^{+0.10}_{-0.10}$	$100\theta_{\text{eq}}$	0.8219	$0.818^{+0.017}_{-0.016}$
$r_{143 \times 217}^{\text{PS}}$	0.900	> 0.726	$\Omega_m h^2$	0.14104	$0.1418^{+0.0036}_{-0.0037}$	$r_{\text{drag}}/D_V(0.57)$	0.07219	$0.0722^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9816.92$; R-1 = 0.00977

χ_{eff}^2 : BAO - DR9: 0.73 DR7: 0.40 6DF: 0.08 CMB - lowLike: 2014.41 lensing: 9.76 lowl: -7.66 CamSpec: 7798.53

18.21 base_w_planck_lowl_lowLike_highL_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02205	$0.02203^{+0.00052}_{-0.00050}$	β_1^1	0.43	$0.4^{+1.1}_{-1.1}$	σ_8	0.866	$0.867^{+0.079}_{-0.075}$
$\Omega_c h^2$	0.12049	$0.1207^{+0.0047}_{-0.0046}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.5^{+1.2}_{-1.1}$	z_{re}	11.53	$11.0^{+2.2}_{-2.2}$
$100\theta_{\text{MC}}$	1.04122	$1.0412^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.1	$76.8^{+8.5}_{-9.0}$	H_0	70.3	$70.8^{+5.7}_{-5.4}$
τ	0.0946	$0.089^{+0.026}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.33	$7.66^{+3.0}_{-2.8}$	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.10}$
w	-1.109	$-1.13^{+0.23}_{-0.25}$	$A_{150}^{\text{PS, SPT}}$	9.80	$10.06^{+0.99}_{-0.99}$	$\Omega_m h^2$	0.14319	$0.1433^{+0.0044}_{-0.0044}$
n_s	0.9576	$0.957^{+0.013}_{-0.013}$	$A_{220}^{\text{PS, SPT}}$	72.9	74^{+9}_{-9}	$\Omega_m h^3$	0.1006	$0.101^{+0.010}_{-0.0097}$
$\ln(10^{10} A_s)$	3.0995	$3.089^{+0.049}_{-0.046}$	$r_{95 \times 150}^{\text{PS}}$	0.792	> 0.681	Y_{P}	0.247703	$0.24769^{+0.00022}_{-0.00022}$
A_{100}^{PS}	204	214^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.544	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8364	$1.837^{+0.023}_{-0.022}$
A_{143}^{PS}	72.6	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9115	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.759	$13.757^{+0.098}_{-0.095}$
A_{217}^{PS}	61.0	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.43^{+0.36}_{-0.39}$	z_*	1090.47	$1090.52^{+0.95}_{-0.95}$
A_{143}^{CIB}	3.16	$3.23^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.841	$0.84^{+0.39}_{-0.39}$	r_*	144.54	$144.5^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.1	50^{+10}_{-9}	y_{148}^{ACTs}	0.9911	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04138	$1.0414^{+0.0011}_{-0.0012}$
A_{143}^{tSZ}	4.59	< 5.05	y_{217}^{ACTs}	1.0026	$1.005^{+0.027}_{-0.026}$	z_{drag}	1059.32	$1059.3^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.817	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9874	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.31	$147.3^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9607	$0.964^{+0.021}_{-0.020}$	k_{D}	0.14029	$0.1403^{+0.0012}_{-0.0012}$
γ^{CIB}	0.657	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9841	$0.984^{+0.039}_{-0.037}$	$100\theta_{\text{D}}$	0.16135	$0.16138^{+0.00063}_{-0.00061}$
c_{100}	1.00058	$1.00058^{+0.00078}_{-0.00077}$	y_{150}^{SPT}	0.9844	$0.987^{+0.019}_{-0.019}$	z_{eq}	3406	3410^{+110}_{-110}
c_{217}	0.99734	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0165	$1.024^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8120	$0.811^{+0.020}_{-0.019}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.847	Ω_{Λ}	0.7100	$0.713^{+0.041}_{-0.040}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07204	$0.0720^{+0.0012}_{-0.0012}$
A^{kSZ}	1.89	$5.35^{+4.0}_{-4.5}$	Ω_{m}	0.2900	$0.287^{+0.040}_{-0.041}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.68$; R-1 = 0.00993

χ_{eff}^2 : BAO - DR7: 0.23 DR9: 0.53 6DF: 0.30 CMB - lowLike: 2014.69 lowl: -6.04 CamSpec: 7807.25 highL: 692.61

18.22 base_w_planck_lowl_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022189	$0.02211^{+0.00051}_{-0.00048}$	β_1^1	0.41	$0.4^{+1.1}_{-1.1}$	σ_8	0.848	$0.846^{+0.059}_{-0.058}$
$\Omega_c h^2$	0.11916	$0.1192^{+0.0038}_{-0.0037}$	$A_{148}^{\text{PS, ACT}}$	10.46	$10.7^{+1.2}_{-1.2}$	z_{re}	11.53	$10.9^{+2.0}_{-2.2}$
$100\theta_{\text{MC}}$	1.04140	$1.0413^{+0.0011}_{-0.0011}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	69.48	$69.9^{+4.9}_{-5.0}$
τ	0.0954	$0.088^{+0.025}_{-0.024}$	$A_{95}^{\text{PS, SPT}}$	7.64	$7.86^{+3.1}_{-2.6}$	$10^9 A_s$	2.217	$2.184^{+0.099}_{-0.096}$
w	-1.060	$-1.08^{+0.19}_{-0.20}$	$A_{150}^{\text{PS, SPT}}$	9.997	$10.2^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14200	$0.1420^{+0.0036}_{-0.0035}$
n_s	0.9609	$0.959^{+0.012}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	73.5	75^{+9}_{-9}	$\Omega_m h^3$	0.0987	$0.0993^{+0.0085}_{-0.0082}$
$\ln(10^{10} A_s)$	3.0987	$3.083^{+0.045}_{-0.045}$	$r_{95 \times 150}^{\text{PS}}$	0.789	> 0.685	Y_{P}	0.247762	$0.24773^{+0.00022}_{-0.00021}$
A_{100}^{PS}	204	216^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.537	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8318	$1.830^{+0.019}_{-0.018}$
A_{143}^{PS}	71.9	74^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9083	$0.934^{+0.047}_{-0.043}$	Age/Gyr	13.761	$13.764^{+0.097}_{-0.094}$
A_{217}^{PS}	59.7	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.421	$0.43^{+0.36}_{-0.38}$	z_*	1090.18	$1090.29^{+0.85}_{-0.85}$
A_{143}^{CIB}	3.14	$3.23^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.851	$0.84^{+0.39}_{-0.38}$	r_*	144.78	$144.83^{+0.88}_{-0.89}$
A_{217}^{CIB}	52.3	50^{+10}_{-10}	y_{148}^{ACTs}	0.9922	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04154	$1.0415^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.45	< 4.91	y_{217}^{ACTs}	1.0040	$1.006^{+0.028}_{-0.027}$	z_{drag}	1059.55	$1059.3^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.816	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9885	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.51	$147.59^{+0.90}_{-0.90}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9625	$0.964^{+0.021}_{-0.020}$	k_{D}	0.14019	$0.1400^{+0.0010}_{-0.0010}$
γ^{CIB}	0.658	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9845	$0.984^{+0.039}_{-0.037}$	$100\theta_{\text{D}}$	0.16122	$0.16133^{+0.00062}_{-0.00061}$
c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00077}$	y_{150}^{SPT}	0.9867	$0.988^{+0.019}_{-0.019}$	z_{eq}	3378	3377^{+87}_{-84}
c_{217}	0.99745	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0190	$1.025^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8176	$0.818^{+0.016}_{-0.016}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.836	Ω_{Λ}	0.7059	$0.709^{+0.038}_{-0.039}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07217	$0.0722^{+0.0012}_{-0.0012}$
A^{kSZ}	1.43	$4.80^{+3.7}_{-4.1}$	Ω_{m}	0.2941	$0.291^{+0.039}_{-0.038}$			

Best-fit $\chi_{\text{eff}}^2 = 10518.63$; R-1 = 0.02832

χ_{eff}^2 : BAO - DR7: 0.26 DR9: 0.71 6DF: 0.18 CMB - lowLike: 2014.62 lensing: 10.15 lowl: -6.57 CamSpec: 7808.24 highL: 690.92

18.23 base_w_planck_lowl_lowLike_highL_BAO_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022072	$0.02199^{+0.00050}_{-0.00049}$	β_1^1	0.45	$0.4^{+1.1}_{-1.1}$	σ_8	0.883	$0.889^{+0.060}_{-0.058}$
$\Omega_c h^2$	0.12080	$0.1214^{+0.0043}_{-0.0044}$	$A_{148}^{\text{PS, ACT}}$	10.32	$10.5^{+1.2}_{-1.1}$	z_{re}	11.53	$10.9^{+2.1}_{-2.1}$
$100\theta_{\text{MC}}$	1.04120	$1.0411^{+0.0012}_{-0.0012}$	$A_{218}^{\text{PS, ACT}}$	76.6	$76.8^{+8.5}_{-9.1}$	H_0	71.89	$72.6^{+4.1}_{-3.8}$
τ	0.0946	$0.088^{+0.025}_{-0.023}$	$A_{95}^{\text{PS, SPT}}$	7.51	$7.65^{+3.0}_{-2.7}$	$10^9 A_s$	2.221	$2.19^{+0.11}_{-0.099}$
w	-1.167	$-1.20^{+0.18}_{-0.19}$	$A_{150}^{\text{PS, SPT}}$	9.85	$10.05^{+0.99}_{-0.99}$	$\Omega_m h^2$	0.14352	$0.1440^{+0.0041}_{-0.0041}$
n_s	0.9570	$0.955^{+0.013}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	73.4	74^{+9}_{-9}	$\Omega_m h^3$	0.1032	$0.1046^{+0.0076}_{-0.0071}$
$\ln(10^{10} A_s)$	3.1005	$3.088^{+0.049}_{-0.046}$	$r_{95 \times 150}^{\text{PS}}$	0.778	> 0.682	Y_{P}	0.247712	$0.24768^{+0.00021}_{-0.00021}$
A_{100}^{PS}	206	215^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.527	$0.58^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8383	$1.840^{+0.022}_{-0.021}$
A_{143}^{PS}	72.4	73^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9117	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.730	$13.730^{+0.077}_{-0.074}$
A_{217}^{PS}	61.4	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.414	$0.43^{+0.36}_{-0.39}$	z_*	1090.47	$1090.64^{+0.89}_{-0.90}$
A_{143}^{CIB}	3.02	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.848	$0.85^{+0.39}_{-0.39}$	r_*	144.44	$144.3^{+1.0}_{-0.99}$
A_{217}^{CIB}	51.3	50^{+10}_{-9}	y_{148}^{ACTs}	0.9915	$0.992^{+0.015}_{-0.014}$	$100\theta_*$	1.04137	$1.0413^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	4.30	< 5.06	y_{217}^{ACTs}	1.0028	$1.005^{+0.027}_{-0.026}$	z_{drag}	1059.40	$1059.2^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.806	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9878	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.20	$147.1^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.849	y_{217}^{ACTe}	0.9613	$0.963^{+0.021}_{-0.020}$	k_{D}	0.14041	$0.1404^{+0.0011}_{-0.0012}$
γ^{CIB}	0.652	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9841	$0.983^{+0.039}_{-0.037}$	$100\theta_{\text{D}}$	0.16131	$0.16140^{+0.00063}_{-0.00060}$
c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00077}$	y_{150}^{SPT}	0.9850	$0.987^{+0.019}_{-0.019}$	z_{eq}	3414	3427^{+98}_{-99}
c_{217}	0.99736	$0.9974^{+0.0027}_{-0.0026}$	y_{220}^{SPT}	1.0165	$1.024^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8106	$0.808^{+0.019}_{-0.018}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.844	Ω_{Λ}	0.7223	$0.726^{+0.028}_{-0.028}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07231	$0.0723^{+0.0011}_{-0.0011}$
A^{kSZ}	2.29	$5.32^{+4.0}_{-4.5}$	Ω_{m}	0.2777	$0.274^{+0.028}_{-0.028}$			

Best-fit $\chi_{\text{eff}}^2 = 10510.93$; R-1 = 0.01440

χ_{eff}^2 : BAO - DR9: 0.93 DR7: 0.00 6DF: 0.70 CMB - lowLike: 2014.75 lowl: -6.00 CamSpec: 7807.19 highL: 692.40 Hubble - HST: 0.84

18.24 base_w_planck_lowl_lowLike_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02205	$0.02208^{+0.00055}_{-0.00054}$	$r_{143 \times 217}^{\text{PS}}$	0.886	> 0.737	$\Omega_m h^3$	0.1018	$0.1016^{+0.0061}_{-0.0059}$
$\Omega_c h^2$	0.1197	$0.1196^{+0.0051}_{-0.0050}$	$r_{143 \times 217}^{\text{CIB}}$	0.584	< 0.807	Y_{P}	0.247704	$0.24771^{+0.00023}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04129	$1.0413^{+0.0012}_{-0.0012}$	γ^{CIB}	0.511	$0.53^{+0.25}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8344	$1.835^{+0.025}_{-0.025}$
τ	0.0820	$0.090^{+0.027}_{-0.026}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00078}$	Age/Gyr	13.738	$13.74^{+0.10}_{-0.11}$
w	-1.136	$-1.13^{+0.13}_{-0.14}$	c_{217}	0.99630	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.40	$1090.4^{+1.0}_{-1.0}$
n_s	0.9599	$0.961^{+0.014}_{-0.014}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	144.74	$144.7^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0733	$3.089^{+0.051}_{-0.047}$	A^{kSZ}	0.0	—	$100\theta_*$	1.04145	$1.0415^{+0.0012}_{-0.0012}$
α_{SNLS}	1.423	$1.43^{+0.22}_{-0.20}$	β_1^1	0.54	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.25	$1059.3^{+1.1}_{-1.1}$
β_{SNLS}	3.257	$3.26^{+0.22}_{-0.21}$	Ω_Λ	0.7211	$0.720^{+0.035}_{-0.038}$	r_{drag}	147.51	$147.5^{+1.1}_{-1.1}$
A_{100}^{PS}	143	169^{+100}_{-100}	Ω_m	0.2789	$0.280^{+0.038}_{-0.035}$	k_{D}	0.14008	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{PS}	45	53^{+30}_{-30}	σ_8	0.8606	$0.866^{+0.050}_{-0.048}$	$100\theta_{\text{D}}$	0.16138	$0.16136^{+0.00066}_{-0.00064}$
A_{217}^{PS}	110.3	107^{+30}_{-30}	z_{re}	10.40	$11.1^{+2.2}_{-2.2}$	z_{eq}	3388	3386^{+120}_{-110}
A_{143}^{CIB}	7.39	—	H_0	71.45	$71.4^{+4.3}_{-4.1}$	$100\theta_{\text{eq}}$	0.8153	$0.816^{+0.022}_{-0.022}$
A_{217}^{CIB}	31.2	29^{+20}_{-10}	$10^9 A_s$	2.161	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07250	$0.0725^{+0.0019}_{-0.0017}$
A_{143}^{tSZ}	10.0	—	$\Omega_m h^2$	0.14242	$0.1423^{+0.0049}_{-0.0047}$			

Best-fit $\chi_{\text{eff}}^2 = 10226.73$; R-1 = 0.00994

χ_{eff}^2 : CMB - lowLike: 2014.47 lowl: -7.30 CamSpec: 7797.54 SN - SNLS: 421.13

18.25 base_w_planck_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02220^{+0.00053}_{-0.00052}$	$r_{143 \times 217}^{\text{PS}}$	0.892	> 0.728	$\Omega_m h^3$	0.1012	$0.1012^{+0.0060}_{-0.0058}$
$\Omega_c h^2$	0.11761	$0.1181^{+0.0041}_{-0.0041}$	$r_{143 \times 217}^{\text{CIB}}$	0.266	< 0.797	Y_{P}	0.247808	$0.24777^{+0.00023}_{-0.00022}$
$100\theta_{\text{MC}}$	1.04158	$1.0415^{+0.0012}_{-0.0012}$	γ^{CIB}	0.527	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8294	$1.828^{+0.021}_{-0.020}$
τ	0.0949	$0.089^{+0.026}_{-0.024}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	Age/Gyr	13.705	$13.72^{+0.11}_{-0.11}$
w	-1.115	$-1.12^{+0.13}_{-0.13}$	c_{217}	0.99634	$0.9964^{+0.0027}_{-0.0026}$	z_*	1089.90	$1090.07^{+0.91}_{-0.90}$
n_s	0.9684	$0.964^{+0.013}_{-0.013}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	145.10	$145.04^{+0.95}_{-0.94}$
$\ln(10^{10} A_s)$	3.0965	$3.085^{+0.047}_{-0.045}$	A^{kSZ}	0.0	—	$100\theta_*$	1.04172	$1.0416^{+0.0012}_{-0.0011}$
α_{SNLS}	1.426	$1.43^{+0.22}_{-0.22}$	β_1^1	0.59	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.67	$1059.5^{+1.1}_{-1.1}$
β_{SNLS}	3.255	$3.26^{+0.22}_{-0.21}$	Ω_{Λ}	0.7289	$0.726^{+0.034}_{-0.037}$	r_{drag}	147.80	$147.77^{+0.97}_{-0.95}$
A_{100}^{PS}	138	167^{+100}_{-100}	Ω_m	0.2711	$0.274^{+0.037}_{-0.034}$	k_{D}	0.13996	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{PS}	54.6	51^{+30}_{-30}	σ_8	0.8603	$0.856^{+0.042}_{-0.042}$	$100\theta_{\text{D}}$	0.16115	$0.16126^{+0.00064}_{-0.00063}$
A_{217}^{PS}	118.7	104^{+30}_{-30}	z_{re}	11.41	$10.9^{+2.1}_{-2.1}$	z_{eq}	3343	3353^{+93}_{-93}
A_{143}^{CIB}	2.59	—	H_0	72.00	$71.8^{+4.4}_{-4.1}$	$100\theta_{\text{eq}}$	0.8243	$0.822^{+0.018}_{-0.018}$
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.212	$2.19^{+0.10}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07317	$0.0730^{+0.0017}_{-0.0016}$
A_{143}^{tSZ}	7.56	—	$\Omega_m h^2$	0.14055	$0.1410^{+0.0039}_{-0.0039}$			

Best-fit $\chi_{\text{eff}}^2 = 10235.92$; R-1 = 0.01253

χ_{eff}^2 : CMB - lowLike: 2014.44 lensing: 9.44 lowl: -8.04 CamSpec: 7798.40 SN - SNLS: 420.92

18.26 base_w_planck_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02208	$0.02201^{+0.00050}_{-0.00049}$	$r_{143 \times 217}^{\text{PS}}$	0.909	> 0.737	$\Omega_m h^3$	0.1012	$0.1011^{+0.0057}_{-0.0054}$
$\Omega_c h^2$	0.12036	$0.1205^{+0.0041}_{-0.0041}$	$r_{143 \times 217}^{\text{CIB}}$	0.577	< 0.810	Y_{P}	0.247715	$0.24769^{+0.00022}_{-0.00021}$
$100\theta_{\text{MC}}$	1.04130	$1.0412^{+0.0012}_{-0.0011}$	γ^{CIB}	0.538	$0.53^{+0.25}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8418	$1.839^{+0.021}_{-0.021}$
τ	0.0935	$0.088^{+0.026}_{-0.025}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	Age/Gyr	13.747	$13.758^{+0.078}_{-0.078}$
w	-1.121	$-1.12^{+0.13}_{-0.14}$	c_{217}	0.99642	$0.9964^{+0.0027}_{-0.0026}$	z_*	1090.43	$1090.53^{+0.87}_{-0.87}$
n_s	0.9626	$0.959^{+0.012}_{-0.012}$	$\xi^{\text{tSZ-CIB}}$	0.19	—	r_*	144.55	$144.56^{+0.96}_{-0.94}$
$\ln(10^{10} A_s)$	3.1004	$3.088^{+0.050}_{-0.046}$	A^{kSZ}	0.5	—	$100\theta_*$	1.04145	$1.0414^{+0.0011}_{-0.0011}$
α_{SNLS}	1.421	$1.43^{+0.22}_{-0.20}$	β_1^1	0.70	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.36	$1059.2^{+1.1}_{-1.1}$
β_{SNLS}	3.255	$3.26^{+0.22}_{-0.21}$	Ω_{Λ}	0.7140	$0.712^{+0.025}_{-0.026}$	r_{drag}	147.31	$147.35^{+0.99}_{-0.97}$
A_{100}^{PS}	153	170^{+100}_{-100}	Ω_m	0.2860	$0.288^{+0.026}_{-0.025}$	k_{D}	0.14030	$0.1402^{+0.0011}_{-0.0012}$
A_{143}^{PS}	65.4	54^{+30}_{-30}	σ_8	0.8708	$0.865^{+0.049}_{-0.048}$	$100\theta_{\text{D}}$	0.16133	$0.16141^{+0.00063}_{-0.00062}$
A_{217}^{PS}	123.1	107^{+30}_{-30}	z_{re}	11.43	$11.0^{+2.2}_{-2.1}$	z_{eq}	3404	3406^{+93}_{-93}
A_{143}^{CIB}	0.0	—	H_0	70.73	$70.6^{+3.2}_{-3.0}$	$100\theta_{\text{eq}}$	0.8125	$0.812^{+0.018}_{-0.017}$
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.221	$2.19^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07218	$0.0721^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	6.03	—	$\Omega_m h^2$	0.14309	$0.1432^{+0.0039}_{-0.0039}$			

Best-fit $\chi_{\text{eff}}^2 = 10227.45$; R-1 = 0.01366

χ_{eff}^2 : BAO - DR7: 0.08 6DF: 0.41 DR9: 0.73 CMB - lowLike: 2014.59 lowl: -7.08 CamSpec: 7796.89 SN - SNLS: 421.18

18.27 base_w_planck_lowl_lowLike_SNLS_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02212^{+0.00054}_{-0.00053}$	$r_{143 \times 217}^{\text{PS}}$	0.957	> 0.736	$\Omega_m h^3$	0.1020	$0.1030^{+0.0052}_{-0.0051}$
$\Omega_c h^2$	0.11834	$0.1192^{+0.0050}_{-0.0049}$	$r_{143 \times 217}^{\text{CIB}}$	0.644	< 0.802	Y_{P}	0.247780	$0.24773^{+0.00023}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04155	$1.0414^{+0.0012}_{-0.0012}$	γ^{CIB}	0.536	$0.53^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8339	$1.833^{+0.025}_{-0.024}$
τ	0.0965	$0.091^{+0.027}_{-0.025}$	c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00078}$	Age/Gyr	13.707	$13.713^{+0.089}_{-0.090}$
w	-1.133	$-1.16^{+0.12}_{-0.12}$	c_{217}	0.99638	$0.9964^{+0.0026}_{-0.0026}$	z_*	1090.05	$1090.3^{+1.0}_{-0.98}$
n_s	0.9679	$0.962^{+0.014}_{-0.014}$	$\xi^{\text{tSZ-CIB}}$	0.63	—	r_*	144.96	$144.8^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.102	$3.090^{+0.052}_{-0.048}$	A^{kSZ}	0.0	—	$100\theta_*$	1.04168	$1.0416^{+0.0012}_{-0.0012}$
α_{SNLS}	1.420	$1.43^{+0.22}_{-0.21}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.59	$1059.4^{+1.1}_{-1.1}$
β_{SNLS}	3.257	$3.27^{+0.22}_{-0.21}$	Ω_{Λ}	0.7291	$0.730^{+0.026}_{-0.029}$	r_{drag}	147.68	$147.6^{+1.1}_{-1.1}$
A_{100}^{PS}	163	169^{+100}_{-100}	Ω_m	0.2709	$0.270^{+0.029}_{-0.026}$	k_{D}	0.14004	$0.1400^{+0.0012}_{-0.0012}$
A_{143}^{PS}	68.0	53^{+30}_{-30}	σ_8	0.8700	$0.874^{+0.046}_{-0.045}$	$100\theta_{\text{D}}$	0.16121	$0.16133^{+0.00065}_{-0.00063}$
A_{217}^{PS}	124.0	107^{+30}_{-30}	z_{re}	11.58	$11.1^{+2.2}_{-2.2}$	z_{eq}	3359	3377^{+110}_{-110}
A_{143}^{CIB}	0.0	—	H_0	72.20	$72.6^{+3.3}_{-3.3}$	$100\theta_{\text{eq}}$	0.8212	$0.818^{+0.022}_{-0.021}$
A_{217}^{CIB}	23	29^{+20}_{-10}	$10^9 A_s$	2.224	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07303	$0.0729^{+0.0016}_{-0.0016}$
A_{143}^{tSZ}	4.63	—	$\Omega_m h^2$	0.14122	$0.1420^{+0.0048}_{-0.0046}$			

Best-fit $\chi_{\text{eff}}^2 = 10227.15$; R-1 = 0.01182

χ_{eff}^2 : CMB - lowLike: 2014.65 lowl: -7.91 CamSpec: 7798.06 Hubble - HST: 0.60 SN - SNLS: 421.08

18.28 base_w_planck_lowl_lowLike_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02211	$0.02204^{+0.00056}_{-0.00054}$	$r_{143 \times 217}^{\text{CIB}}$	0.000	< 0.793	$\Omega_m h^3$	0.0999	$0.0999^{+0.0073}_{-0.0072}$
$\Omega_c h^2$	0.1200	$0.1201^{+0.0052}_{-0.0051}$	γ^{CIB}	0.541	$0.53^{+0.23}_{-0.25}$	Y_P	0.247726	$0.24770^{+0.00024}_{-0.00024}$
$100\theta_{\text{MC}}$	1.04131	$1.0413^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8409	$1.837^{+0.025}_{-0.025}$
τ	0.0929	$0.089^{+0.027}_{-0.026}$	c_{217}	0.99643	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.758	$13.77^{+0.12}_{-0.12}$
w	-1.091	$-1.09^{+0.17}_{-0.17}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1090.36	$1090.5^{+1.0}_{-1.0}$
n_s	0.9638	$0.960^{+0.014}_{-0.014}$	A^{kSZ}	0.0	—	r_*	144.63	$144.7^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.0986	$3.089^{+0.052}_{-0.048}$	β_1^1	0.72	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04147	$1.0414^{+0.0012}_{-0.0012}$
A_{100}^{PS}	149	171^{+100}_{-100}	Ω_Λ	0.7088	$0.707^{+0.045}_{-0.047}$	z_{drag}	1059.40	$1059.3^{+1.2}_{-1.1}$
A_{143}^{PS}	61.7	54^{+30}_{-30}	Ω_m	0.2912	$0.293^{+0.047}_{-0.045}$	r_{drag}	147.38	$147.4^{+1.1}_{-1.1}$
A_{217}^{PS}	123.9	107^{+30}_{-30}	σ_8	0.860	$0.855^{+0.056}_{-0.056}$	k_D	0.14025	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	1.31	—	z_{re}	11.36	$11.0^{+2.2}_{-2.2}$	$100\theta_D$	0.16130	$0.16139^{+0.00067}_{-0.00065}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	70.01	$70.0^{+5.0}_{-4.9}$	z_{eq}	3395	3396^{+120}_{-110}
A_{143}^{tSZ}	6.22	—	$10^9 A_s$	2.217	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8141	$0.814^{+0.022}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.892	> 0.737	$\Omega_m h^2$	0.14273	$0.1428^{+0.0049}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.07211	$0.0720^{+0.0019}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 9934.89$; R-1 = 0.00969

χ_{eff}^2 : CMB - lowLike: 2014.49 lowl: -7.28 CamSpec: 7797.18 SN - Union2.1: 129.86

18.29 base_w_planck_lowl_lowLike_Union2_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02226	$0.02214^{+0.00054}_{-0.00053}$	$r_{143 \times 217}^{\text{CIB}}$	0.570	< 0.797	$\Omega_m h^3$	0.0983	$0.0993^{+0.0070}_{-0.0069}$
$\Omega_c h^2$	0.11811	$0.1185^{+0.0042}_{-0.0041}$	γ^{CIB}	0.565	$0.53^{+0.23}_{-0.25}$	Y_P	0.247793	$0.24774^{+0.00023}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04152	$1.0414^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.829^{+0.020}_{-0.021}$
τ	0.0940	$0.089^{+0.027}_{-0.024}$	c_{217}	0.99629	$0.9964^{+0.0027}_{-0.0028}$	Age/Gyr	13.751	$13.75^{+0.12}_{-0.12}$
w	-1.049	$-1.08^{+0.16}_{-0.16}$	$\xi^{\text{tSZ-CIB}}$	0.33	—	z_*	1089.99	$1090.19^{+0.93}_{-0.94}$
n_s	0.9674	$0.963^{+0.014}_{-0.013}$	A^{kSZ}	0.99	—	r_*	145.00	$144.98^{+0.95}_{-0.95}$
$\ln(10^{10} A_s)$	3.0965	$3.084^{+0.048}_{-0.047}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04165	$1.0416^{+0.0012}_{-0.0012}$
A_{100}^{PS}	144	171^{+100}_{-100}	Ω_Λ	0.7095	$0.713^{+0.044}_{-0.046}$	z_{drag}	1059.63	$1059.4^{+1.1}_{-1.1}$
A_{143}^{PS}	60.9	53^{+30}_{-30}	Ω_m	0.2905	$0.287^{+0.046}_{-0.044}$	r_{drag}	147.71	$147.74^{+0.97}_{-0.95}$
A_{217}^{PS}	119.6	106^{+30}_{-30}	σ_8	0.8426	$0.845^{+0.049}_{-0.049}$	k_D	0.14003	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	0.0	—	z_{re}	11.36	$10.9^{+2.1}_{-2.1}$	$100\theta_D$	0.16117	$0.16132^{+0.00066}_{-0.00063}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	69.7	$70.3^{+5.0}_{-5.0}$	z_{eq}	3354	3361^{+95}_{-93}
A_{143}^{tSZ}	6.31	—	$10^9 A_s$	2.212	$2.19^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8221	$0.821^{+0.018}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.952	> 0.729	$\Omega_m h^2$	0.14101	$0.1413^{+0.0040}_{-0.0039}$	$r_{\text{drag}}/D_V(0.57)$	0.07247	$0.0725^{+0.0018}_{-0.0018}$

Best-fit $\chi^2_{\text{eff}} = 9945.37$; R-1 = 0.01337

χ^2_{eff} : CMB - lowLike: 2014.39 lensing: 9.73 lowl: -7.75 CamSpec: 7798.71 SN - Union2.1: 129.83

18.30 base_w_planck_lowl_lowLike_Union2_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02216	$0.02202^{+0.00052}_{-0.00050}$	$r_{143 \times 217}^{\text{CIB}}$	0.470	< 0.789	$\Omega_m h^3$	0.0977	$0.0999^{+0.0064}_{-0.0061}$
$\Omega_c h^2$	0.11922	$0.1203^{+0.0042}_{-0.0043}$	γ^{CIB}	0.552	$0.53^{+0.23}_{-0.25}$	Y_P	0.247748	$0.24769^{+0.00022}_{-0.00022}$
$100\theta_{\text{MC}}$	1.04143	$1.0412^{+0.0011}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8378	$1.838^{+0.022}_{-0.022}$
τ	0.0930	$0.089^{+0.026}_{-0.024}$	c_{217}	0.99642	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.776	$13.771^{+0.083}_{-0.083}$
w	-1.039	$-1.10^{+0.14}_{-0.15}$	$\xi^{\text{tSZ-CIB}}$	0.44	—	z_*	1090.22	$1090.50^{+0.89}_{-0.90}$
n_s	0.9655	$0.959^{+0.013}_{-0.012}$	A^{kSZ}	0.1	—	r_*	144.79	$144.6^{+1.0}_{-0.99}$
$\ln(10^{10} A_s)$	3.0972	$3.088^{+0.051}_{-0.047}$	β_1^1	0.72	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04157	$1.0414^{+0.0011}_{-0.0012}$
A_{100}^{PS}	159	172^{+100}_{-100}	Ω_Λ	0.7001	$0.706^{+0.027}_{-0.029}$	z_{drag}	1059.47	$1059.2^{+1.1}_{-1.1}$
A_{143}^{PS}	67.1	54^{+30}_{-30}	Ω_m	0.2999	$0.294^{+0.029}_{-0.027}$	r_{drag}	147.53	$147.4^{+1.0}_{-1.0}$
A_{217}^{PS}	123.5	107^{+30}_{-30}	σ_8	0.843	$0.856^{+0.053}_{-0.053}$	k_D	0.14014	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.34	$11.0^{+2.2}_{-2.2}$	$100\theta_D$	0.16127	$0.16140^{+0.00065}_{-0.00065}$
A_{217}^{CIB}	24	29^{+10}_{-10}	H_0	68.82	$69.9^{+3.5}_{-3.4}$	z_{eq}	3378	3401^{+97}_{-98}
A_{143}^{tSZ}	5.32	—	$10^9 A_s$	2.214	$2.19^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8174	$0.813^{+0.019}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.946	> 0.736	$\Omega_m h^2$	0.14203	$0.1430^{+0.0041}_{-0.0041}$	$r_{\text{drag}}/D_V(0.57)$	0.07200	$0.0720^{+0.0012}_{-0.0011}$

Best-fit $\chi_{\text{eff}}^2 = 9936.60$; R-1 = 0.00877

χ_{eff}^2 : BAO - DR7: 0.56 6DF: 0.09 DR9: 0.48 CMB - lowLike: 2014.42 lowl: -7.47 CamSpec: 7798.05 SN - Union2.1: 129.92

18.31 base_w_planck_lowl_lowLike_Union2_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02217	$0.02210^{+0.00055}_{-0.00053}$	$r_{143 \times 217}^{\text{CIB}}$	0.569	< 0.788	$\Omega_m h^3$	0.1022	$0.1025^{+0.0057}_{-0.0056}$
$\Omega_c h^2$	0.1194	$0.1196^{+0.0050}_{-0.0050}$	γ^{CIB}	0.538	$0.53^{+0.23}_{-0.25}$	Y_P	0.247752	$0.24772^{+0.00023}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04141	$1.0414^{+0.0012}_{-0.0012}$	c_{100}	1.00060	$1.00058^{+0.00078}_{-0.00076}$	$10^9 A_s e^{-2\tau}$	1.8376	$1.834^{+0.025}_{-0.025}$
τ	0.0942	$0.090^{+0.027}_{-0.025}$	c_{217}	0.99638	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.719	$13.724^{+0.092}_{-0.091}$
w	-1.141	$-1.15^{+0.13}_{-0.13}$	$\xi^{\text{tSZ-CIB}}$	0.13	—	z_*	1090.22	$1090.33^{+0.99}_{-1.0}$
n_s	0.9647	$0.961^{+0.014}_{-0.014}$	A^{kSZ}	0.5	—	r_*	144.74	$144.7^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.099	$3.089^{+0.051}_{-0.051}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04156	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	143	170^{+100}_{-100}	Ω_Λ	0.7249	$0.725^{+0.028}_{-0.031}$	z_{drag}	1059.47	$1059.3^{+1.1}_{-1.1}$
A_{143}^{PS}	62.6	53^{+30}_{-30}	Ω_m	0.2751	$0.275^{+0.031}_{-0.028}$	r_{drag}	147.48	$147.5^{+1.1}_{-1.2}$
A_{217}^{PS}	123.2	107^{+30}_{-30}	σ_8	0.8734	$0.871^{+0.049}_{-0.049}$	k_D	0.14020	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.43	$11.1^{+2.2}_{-2.2}$	$100\theta_D$	0.16125	$0.16134^{+0.00065}_{-0.00063}$
A_{217}^{CIB}	24	29^{+20}_{-10}	H_0	71.89	$72.1^{+3.5}_{-3.5}$	z_{eq}	3382	3385^{+120}_{-110}
A_{143}^{tSZ}	6.76	—	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8167	$0.816^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.911	> 0.736	$\Omega_m h^2$	0.14218	$0.1423^{+0.0048}_{-0.0047}$	$r_{\text{drag}}/D_V(0.57)$	0.07269	$0.0727^{+0.0017}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 9936.26$; R-1 = 0.01366

χ_{eff}^2 : CMB - lowLike: 2014.55 lowl: -7.51 CamSpec: 7797.14 Hubble - HST: 0.82 SN - Union2.1: 130.61

18.32 base_w_planck_lowl_lowLike_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02218	$0.02206^{+0.00055}_{-0.00053}$	$r_{143 \times 217}^{\text{CIB}}$	0.497	< 0.799	$\Omega_m h^3$	0.1034	$0.1064^{+0.0082}_{-0.0079}$
$\Omega_c h^2$	0.1189	$0.1200^{+0.0051}_{-0.0050}$	γ^{CIB}	0.552	$0.53^{+0.23}_{-0.25}$	Y_P	0.247760	$0.24771^{+0.00024}_{-0.00023}$
$100\theta_{\text{MC}}$	1.04147	$1.0413^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8355	$1.837^{+0.025}_{-0.024}$
τ	0.0941	$0.089^{+0.027}_{-0.024}$	c_{217}	0.99650	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.699	$13.69^{+0.10}_{-0.098}$
w	-1.167	$-1.24^{+0.18}_{-0.19}$	$\xi^{\text{tSZ-CIB}}$	0.27	—	z_*	1090.16	$1090.4^{+1.0}_{-1.0}$
n_s	0.9655	$0.960^{+0.014}_{-0.014}$	A^{kSZ}	1.38	—	r_*	144.84	$144.7^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0981	$3.089^{+0.051}_{-0.047}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04161	$1.0415^{+0.0012}_{-0.0012}$
A_{100}^{PS}	151	169^{+100}_{-100}	Ω_Λ	0.7336	$0.742^{+0.036}_{-0.038}$	z_{drag}	1059.51	$1059.3^{+1.1}_{-1.1}$
A_{143}^{PS}	63.9	53^{+30}_{-30}	Ω_m	0.2664	$0.258^{+0.038}_{-0.036}$	r_{drag}	147.57	$147.4^{+1.1}_{-1.1}$
A_{217}^{PS}	119.6	107^{+30}_{-30}	σ_8	0.879	$0.897^{+0.062}_{-0.061}$	k_D	0.14012	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.40	$11.0^{+2.2}_{-2.1}$	$100\theta_D$	0.16125	$0.16137^{+0.00065}_{-0.00063}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	72.9	$74.5^{+5.1}_{-5.0}$	z_{eq}	3372	3395^{+120}_{-110}
A_{143}^{tSZ}	5.79	—	$10^9 A_s$	2.216	$2.20^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8186	$0.814^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.924	> 0.743	$\Omega_m h^2$	0.14177	$0.1427^{+0.0048}_{-0.0048}$	$r_{\text{drag}}/D_V(0.57)$	0.07304	$0.0730^{+0.0017}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 9805.21$; R-1 = 0.01099

χ_{eff}^2 : CMB - lowLike: 2014.54 lowl: -7.70 CamSpec: 7797.58 Hubble - HST: 0.24

18.33 base_w_planck_lowl_lowLike_HST_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02234	$0.02216^{+0.00053}_{-0.00051}$	$r_{143 \times 217}^{\text{CIB}}$	0.431	< 0.797	$\Omega_m h^3$	0.1021	$0.1052^{+0.0075}_{-0.0074}$
$\Omega_c h^2$	0.11729	$0.1183^{+0.0041}_{-0.0041}$	γ^{CIB}	0.571	$0.53^{+0.24}_{-0.25}$	Y_P	0.247829	$0.24775^{+0.00023}_{-0.00022}$
$100\theta_{\text{MC}}$	1.04169	$1.0415^{+0.0012}_{-0.0012}$	c_{100}	1.00058	$1.00058^{+0.00080}_{-0.00076}$	$10^9 A_s e^{-2\tau}$	1.8297	$1.829^{+0.020}_{-0.020}$
τ	0.0946	$0.088^{+0.027}_{-0.023}$	c_{217}	0.99641	$0.9964^{+0.0027}_{-0.0027}$	Age/Gyr	13.686	$13.68^{+0.10}_{-0.097}$
w	-1.131	$-1.21^{+0.16}_{-0.17}$	$\xi^{\text{tSZ-CIB}}$	0.33	—	z_*	1089.81	$1090.14^{+0.90}_{-0.89}$
n_s	0.9696	$0.963^{+0.013}_{-0.013}$	A^{kSZ}	0.6	—	r_*	145.15	$145.03^{+0.93}_{-0.92}$
$\ln(10^{10} A_s)$	3.0960	$3.083^{+0.048}_{-0.044}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04182	$1.0416^{+0.0012}_{-0.0012}$
A_{100}^{PS}	153	169^{+100}_{-100}	Ω_Λ	0.7351	$0.745^{+0.035}_{-0.037}$	z_{drag}	1059.74	$1059.4^{+1.2}_{-1.1}$
A_{143}^{PS}	62.9	52^{+30}_{-30}	Ω_m	0.2649	$0.255^{+0.037}_{-0.035}$	r_{drag}	147.83	$147.78^{+0.95}_{-0.94}$
A_{217}^{PS}	118.1	105^{+30}_{-30}	σ_8	0.864	$0.881^{+0.051}_{-0.051}$	k_D	0.13996	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{CIB}	0.0	—	z_{re}	11.36	$10.9^{+2.1}_{-2.1}$	$100\theta_D$	0.16111	$0.16131^{+0.00063}_{-0.00063}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	72.78	$74.5^{+4.9}_{-4.9}$	z_{eq}	3337	3356^{+92}_{-92}
A_{143}^{tSZ}	5.68	—	$10^9 A_s$	2.211	$2.18^{+0.11}_{-0.094}$	$100\theta_{\text{eq}}$	0.8258	$0.822^{+0.018}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.942	> 0.733	$\Omega_m h^2$	0.14028	$0.1411^{+0.0039}_{-0.0038}$	$r_{\text{drag}}/D_V(0.57)$	0.07344	$0.0735^{+0.0016}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 9815.55$; R-1 = 0.01367

χ_{eff}^2 : CMB - lowLike: 2014.40 lensing: 9.30 lowl: -8.21 CamSpec: 7799.35 Hubble - HST: 0.29

18.34 base_w_planck_lowl_lowLike_HST_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02196^{+0.00052}_{-0.00050}$	$r_{143 \times 217}^{\text{CIB}}$	0.457	< 0.800	$\Omega_m h^3$	0.1022	$0.1045^{+0.0077}_{-0.0072}$
$\Omega_c h^2$	0.11992	$0.1215^{+0.0042}_{-0.0045}$	γ^{CIB}	0.556	$0.54^{+0.23}_{-0.25}$	Y_P	0.247744	$0.24766^{+0.00023}_{-0.00022}$
$100\theta_{\text{MC}}$	1.04136	$1.0411^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00057^{+0.00080}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8397	$1.843^{+0.022}_{-0.023}$
τ	0.0927	$0.087^{+0.026}_{-0.023}$	c_{217}	0.99636	$0.9964^{+0.0028}_{-0.0027}$	Age/Gyr	13.726	$13.733^{+0.079}_{-0.078}$
w	-1.141	$-1.21^{+0.17}_{-0.19}$	$\xi^{\text{tSZ-CIB}}$	0.16	—	z_*	1090.30	$1090.69^{+0.92}_{-0.92}$
n_s	0.9631	$0.957^{+0.013}_{-0.013}$	A^{kSZ}	1.30	—	r_*	144.61	$144.3^{+1.0}_{-0.97}$
$\ln(10^{10} A_s)$	3.0977	$3.087^{+0.050}_{-0.045}$	β_1^1	0.68	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04150	$1.0413^{+0.0012}_{-0.0011}$
A_{100}^{PS}	147	171^{+100}_{-100}	Ω_Λ	0.7217	$0.725^{+0.027}_{-0.029}$	z_{drag}	1059.47	$1059.2^{+1.1}_{-1.1}$
A_{143}^{PS}	62.2	54^{+30}_{-30}	Ω_m	0.2783	$0.275^{+0.029}_{-0.027}$	r_{drag}	147.35	$147.1^{+1.0}_{-0.99}$
A_{217}^{PS}	119.8	107^{+30}_{-30}	σ_8	0.874	$0.890^{+0.061}_{-0.060}$	k_D	0.14032	$0.1404^{+0.0011}_{-0.0012}$
A_{143}^{CIB}	0.0	—	z_{re}	11.33	$10.9^{+2.2}_{-2.1}$	$100\theta_D$	0.16125	$0.16144^{+0.00064}_{-0.00064}$
A_{217}^{CIB}	25	29^{+20}_{-10}	H_0	71.61	$72.5^{+4.1}_{-3.9}$	z_{eq}	3395	3428^{+97}_{-100}
A_{143}^{tSZ}	6.40	—	$10^9 A_s$	2.215	$2.19^{+0.11}_{-0.11}$	$100\theta_{\text{eq}}$	0.8143	$0.808^{+0.019}_{-0.019}$
$r_{143 \times 217}^{\text{PS}}$	0.917	> 0.743	$\Omega_m h^2$	0.14271	$0.1441^{+0.0040}_{-0.0043}$	$r_{\text{drag}}/D_V(0.57)$	0.07249	$0.0722^{+0.0011}_{-0.0011}$

Best-fit $\chi_{\text{eff}}^2 = 9807.82$; R-1 = 0.01506

χ_{eff}^2 : BAO - DR9: 1.24 DR7: 0.01 6DF: 0.65 CMB - lowLike: 2014.51 lowl: -7.27 CamSpec: 7797.14 Hubble - HST: 1.03

19 w+wa

19.1 base_w_wa_planck_lowl_lowLike_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02203	$0.02198^{+0.00053}_{-0.00051}$	$r_{143 \times 217}^{\text{CIB}}$	0.337	< 0.791	Y_P	0.247696	$0.24767^{+0.00023}_{-0.00022}$
$\Omega_c h^2$	0.12074	$0.1211^{+0.0048}_{-0.0047}$	γ^{CIB}	0.555	$0.54^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8435	$1.841^{+0.024}_{-0.024}$
$100\theta_{\text{MC}}$	1.04118	$1.0411^{+0.0012}_{-0.0012}$	c_{100}	1.00058	$1.00058^{+0.00078}_{-0.00077}$	Age/Gyr	13.758	$13.76^{+0.10}_{-0.097}$
τ	0.0923	$0.087^{+0.026}_{-0.024}$	c_{217}	0.99650	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.51	$1090.63^{+0.96}_{-0.96}$
w	-1.01	$-1.04^{+0.72}_{-0.69}$	$\xi^{\text{tSZ-CIB}}$	0.18	—	r_*	144.49	$144.5^{+1.1}_{-1.1}$
w_a	-0.29	< 1.32	A^{ksZ}	0.0	—	$100\theta_*$	1.04134	$1.0413^{+0.0012}_{-0.0012}$
n_s	0.9617	$0.958^{+0.014}_{-0.014}$	β_1^1	0.68	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.28	$1059.2^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0989	$3.087^{+0.050}_{-0.046}$	Ω_Λ	0.701	$0.705^{+0.070}_{-0.067}$	r_{drag}	147.26	$147.2^{+1.1}_{-1.1}$
A_{100}^{PS}	151	171^{+100}_{-100}	Ω_m	0.299	$0.295^{+0.067}_{-0.070}$	k_D	0.14032	$0.1403^{+0.0012}_{-0.0012}$
A_{143}^{PS}	66.9	54^{+30}_{-30}	σ_8	0.861	$0.864^{+0.095}_{-0.090}$	$100\theta_D$	0.16136	$0.16143^{+0.00066}_{-0.00063}$
A_{217}^{PS}	122.3	107^{+30}_{-30}	z_{re}	11.34	$10.9^{+2.2}_{-2.1}$	z_{eq}	3412	3418^{+110}_{-110}
A_{143}^{CIB}	0.0	—	H_0	69.3	70^{+9}_{-8}	$100\theta_{\text{eq}}$	0.8109	$0.810^{+0.020}_{-0.020}$
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.217	$2.19^{+0.11}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07213	$0.0721^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	5.89	—	$\Omega_m h^2$	0.14342	$0.1437^{+0.0045}_{-0.0045}$			
$r_{143 \times 217}^{\text{PS}}$	0.914	> 0.738	$\Omega_m h^3$	0.0993	$0.101^{+0.014}_{-0.013}$			

Best-fit $\chi_{\text{eff}}^2 = 9806.18$; R-1 = 0.00683

χ_{eff}^2 : BAO - DR9: 0.65 DR7: 0.24 6DF: 0.19 CMB - lowLike: 2014.51 lowl: -6.91 CamSpec: 7796.98

19.2 base_w_wa_planck_lowl_lowLike_BAO_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02222	$0.02207^{+0.00052}_{-0.00051}$	$r_{143 \times 217}^{\text{CIB}}$	0.787	< 0.794	Y_P	0.247774	$0.24771^{+0.00022}_{-0.00022}$
$\Omega_c h^2$	0.11847	$0.1194^{+0.0038}_{-0.0038}$	γ^{CIB}	0.555	$0.54^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8338	$1.833^{+0.019}_{-0.019}$
$100\theta_{\text{MC}}$	1.04138	$1.0413^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	Age/Gyr	13.769	$13.77^{+0.10}_{-0.096}$
τ	0.0940	$0.086^{+0.026}_{-0.023}$	c_{217}	0.99645	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.08	$1090.35^{+0.88}_{-0.88}$
w	-0.99	> -1.69	$\xi^{\text{tSZ-CIB}}$	0.20	—	r_*	144.93	$144.81^{+0.90}_{-0.87}$
w_a	-0.12	—	A^{kSZ}	0.6	—	$100\theta_*$	1.04153	$1.0414^{+0.0012}_{-0.0011}$
n_s	0.9666	$0.961^{+0.013}_{-0.013}$	β_1^1	0.63	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.55	$1059.3^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0969	$3.081^{+0.046}_{-0.042}$	Ω_Λ	0.699	$0.705^{+0.069}_{-0.068}$	r_{drag}	147.66	$147.58^{+0.92}_{-0.89}$
A_{100}^{PS}	152	172^{+100}_{-100}	Ω_m	0.301	$0.295^{+0.068}_{-0.069}$	k_D	0.14005	$0.1400^{+0.0010}_{-0.0011}$
A_{143}^{PS}	64.1	53^{+30}_{-30}	σ_8	0.836	$0.845^{+0.085}_{-0.081}$	$100\theta_D$	0.16120	$0.16136^{+0.00065}_{-0.00063}$
A_{217}^{PS}	119.2	105^{+30}_{-30}	z_{re}	11.38	$10.7^{+2.1}_{-2.1}$	z_{eq}	3362	3380^{+86}_{-87}
A_{143}^{CIB}	0.0	—	H_0	68.5	70^{+9}_{-8}	$100\theta_{\text{eq}}$	0.8205	$0.817^{+0.017}_{-0.016}$
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.213	$2.18^{+0.10}_{-0.098}$	$r_{\text{drag}}/D_V(0.57)$	0.07226	$0.0722^{+0.0015}_{-0.0015}$
A_{143}^{tSZ}	5.75	—	$\Omega_m h^2$	0.14133	$0.1421^{+0.0036}_{-0.0036}$			
$r_{143 \times 217}^{\text{PS}}$	0.914	> 0.729	$\Omega_m h^3$	0.0968	$0.099^{+0.014}_{-0.013}$			

Best-fit $\chi_{\text{eff}}^2 = 9816.97$; R-1 = 0.00947

χ_{eff}^2 : BAO - DR9: 0.84 DR7: 0.33 6DF: 0.08 CMB - lowLike: 2014.42 lensing: 10.02 lowl: -7.59 CamSpec: 7798.34

19.3 base_w_wa_planck_lowl_lowLike_highL_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022054	$0.02201^{+0.00050}_{-0.00049}$	A^{KSZ}	1.27	$5.34^{+4.0}_{-4.4}$	Ω_m	0.301	$0.296^{+0.067}_{-0.071}$
$\Omega_c h^2$	0.12086	$0.1209^{+0.0047}_{-0.0047}$	β_1^1	0.51	$0.4^{+1.1}_{-1.1}$	σ_8	0.859	$0.862^{+0.094}_{-0.090}$
$100\theta_{\text{MC}}$	1.04121	$1.0412^{+0.0012}_{-0.0012}$	$A_{148}^{\text{PS, ACT}}$	10.22	$10.5^{+1.2}_{-1.1}$	z_{re}	11.46	$11.0^{+2.1}_{-2.1}$
τ	0.0937	$0.088^{+0.026}_{-0.023}$	$A_{218}^{\text{PS, ACT}}$	75.4	77^{+9}_{-9}	H_0	69.1	70^{+9}_{-8}
w	-0.98	> -1.67	$A_{95}^{\text{PS, SPT}}$	7.07	$7.63^{+3.0}_{-2.8}$	$10^9 A_s$	2.218	$2.19^{+0.11}_{-0.10}$
w_a	-0.39	< 1.25	$A_{150}^{\text{PS, SPT}}$	9.73	$10.05^{+0.99}_{-0.99}$	$\Omega_m h^2$	0.14355	$0.1436^{+0.0045}_{-0.0045}$
n_s	0.9571	$0.956^{+0.013}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	72.1	74^{+9}_{-9}	$\Omega_m h^3$	0.0992	$0.101^{+0.014}_{-0.013}$
$\ln(10^{10} A_s)$	3.0991	$3.088^{+0.048}_{-0.045}$	$r_{95 \times 150}^{\text{PS}}$	0.812	> 0.683	Y_{P}	0.247704	$0.24768^{+0.00022}_{-0.00021}$
A_{100}^{PS}	205	215^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.572	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8386	$1.838^{+0.023}_{-0.023}$
A_{143}^{PS}	71.8	74^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9121	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.752	$13.76^{+0.10}_{-0.097}$
A_{217}^{PS}	60.1	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.426	$0.43^{+0.36}_{-0.39}$	z_*	1090.50	$1090.58^{+0.91}_{-0.91}$
A_{143}^{CIB}	3.37	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.838	$0.85^{+0.39}_{-0.39}$	r_*	144.44	$144.5^{+1.1}_{-1.1}$
A_{217}^{CIB}	53.2	50^{+10}_{-10}	y_{148}^{ACTs}	0.9917	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04137	$1.0413^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	5.05	< 4.99	y_{217}^{ACTs}	1.0015	$1.005^{+0.027}_{-0.026}$	z_{drag}	1059.36	$1059.2^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.824	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9875	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.21	$147.2^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.850	y_{217}^{ACTe}	0.9601	$0.963^{+0.021}_{-0.020}$	k_{D}	0.14039	$0.1403^{+0.0012}_{-0.0012}$
γ^{CIB}	0.671	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9861	$0.983^{+0.039}_{-0.037}$	$100\theta_{\text{D}}$	0.16133	$0.16140^{+0.00063}_{-0.00061}$
c_{100}	1.00058	$1.00058^{+0.00079}_{-0.00078}$	y_{150}^{SPT}	0.9843	$0.987^{+0.019}_{-0.018}$	z_{eq}	3415	3416^{+110}_{-110}
c_{217}	0.99735	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0155	$1.023^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8104	$0.810^{+0.020}_{-0.019}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.831	Ω_{Λ}	0.699	$0.704^{+0.071}_{-0.067}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07219	$0.0722^{+0.0014}_{-0.0014}$

Best-fit $\chi_{\text{eff}}^2 = 10509.85$; R-1 = 0.00934

χ_{eff}^2 : BAO - DR7: 0.21 DR9: 0.74 6DF: 0.17 CMB - lowLike: 2014.62 lowl: -5.91 CamSpec: 7807.18 highL: 692.76

19.4 base_w_wa_planck_lowl_lowLike_highL_BAO_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02219	$0.02208^{+0.00052}_{-0.00049}$	A^{KSZ}	1.55	$4.82^{+3.7}_{-4.2}$	Ω_m	0.302	$0.296^{+0.067}_{-0.070}$
$\Omega_c h^2$	0.11869	$0.1195^{+0.0038}_{-0.0039}$	β_1^1	0.39	$0.4^{+1.1}_{-1.1}$	σ_8	0.837	$0.845^{+0.084}_{-0.080}$
$100\theta_{\text{MC}}$	1.04142	$1.0413^{+0.0011}_{-0.0011}$	$A_{148}^{\text{PS, ACT}}$	10.46	$10.7^{+1.2}_{-1.1}$	z_{re}	11.60	$10.8^{+2.1}_{-2.1}$
τ	0.0963	$0.087^{+0.025}_{-0.025}$	$A_{218}^{\text{PS, ACT}}$	76.5	77^{+9}_{-9}	H_0	68.5	70^{+9}_{-8}
w	-0.97	> -1.68	$A_{95}^{\text{PS, SPT}}$	7.67	$7.84^{+3.0}_{-2.8}$	$10^9 A_s$	2.218	$2.18^{+0.10}_{-0.10}$
w_a	-0.18	< 1.32	$A_{150}^{\text{PS, SPT}}$	10.01	$10.2^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14152	$0.1422^{+0.0037}_{-0.0036}$
n_s	0.9619	$0.959^{+0.012}_{-0.011}$	$A_{220}^{\text{PS, SPT}}$	73.5	74^{+9}_{-9}	$\Omega_m h^3$	0.0969	$0.099^{+0.014}_{-0.013}$
$\ln(10^{10} A_s)$	3.0993	$3.082^{+0.047}_{-0.044}$	$r_{95 \times 150}^{\text{PS}}$	0.786	> 0.685	Y_p	0.247761	$0.24772^{+0.00022}_{-0.00021}$
A_{100}^{PS}	204	218^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.532	$0.58^{+0.23}_{-0.22}$	$10^9 A_s e^{-2\tau}$	1.8294	$1.831^{+0.019}_{-0.019}$
A_{143}^{PS}	72.2	75^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9086	$0.934^{+0.049}_{-0.045}$	Age/Gyr	13.765	$13.76^{+0.10}_{-0.099}$
A_{217}^{PS}	59.7	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.424	$0.44^{+0.36}_{-0.38}$	z_*	1090.14	$1090.35^{+0.83}_{-0.90}$
A_{143}^{CIB}	3.09	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.842	$0.84^{+0.38}_{-0.40}$	r_*	144.90	$144.78^{+0.87}_{-0.91}$
A_{217}^{CIB}	52.1	50^{+10}_{-9}	y_{148}^{ACTs}	0.9920	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04156	$1.0414^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.37	< 4.83	y_{217}^{ACTs}	1.0039	$1.006^{+0.028}_{-0.027}$	z_{drag}	1059.51	$1059.3^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.814	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9883	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.63	$147.55^{+0.89}_{-0.93}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.852	y_{217}^{ACTe}	0.9624	$0.964^{+0.020}_{-0.020}$	k_D	0.14005	$0.1401^{+0.0011}_{-0.0010}$
γ^{CIB}	0.658	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9852	$0.984^{+0.039}_{-0.037}$	$100\theta_D$	0.16124	$0.16135^{+0.00066}_{-0.00065}$
c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00079}$	y_{150}^{SPT}	0.9864	$0.988^{+0.019}_{-0.019}$	z_{eq}	3366	3382^{+88}_{-86}
c_{217}	0.99732	$0.9974^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0183	$1.025^{+0.047}_{-0.042}$	$100\theta_{\text{eq}}$	0.8197	$0.817^{+0.017}_{-0.016}$
$\xi^{\text{tSZ-CIB}}$	0.000	< 0.820	Ω_Λ	0.698	$0.704^{+0.070}_{-0.067}$	$r_{\text{drag}}/D_V(0.57)$	0.07230	$0.0723^{+0.0015}_{-0.0014}$

Best-fit $\chi_{\text{eff}}^2 = 10518.62$; R-1 = 0.02616

χ_{eff}^2 : BAO - DR7: 0.28 DR9: 0.91 6DF: 0.09 CMB - lowLike: 2014.63 lensing: 9.88 lowl: -6.72 CamSpec: 7808.43 highL: 691.01

19.5 base_w_wa_planck_lowl_lowLike_highL_BAO_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.022055	$0.02199^{+0.00050}_{-0.00048}$	A^{KSZ}	1.83	$5.35^{+4.0}_{-4.4}$	Ω_m	0.2868	$0.269^{+0.038}_{-0.036}$
$\Omega_c h^2$	0.12137	$0.1213^{+0.0047}_{-0.0047}$	β_1^1	0.47	$0.4^{+1.1}_{-1.1}$	σ_8	0.879	$0.892^{+0.061}_{-0.059}$
$100\theta_{\text{MC}}$	1.04122	$1.0411^{+0.0012}_{-0.0011}$	$A_{148}^{\text{PS, ACT}}$	10.28	$10.5^{+1.2}_{-1.1}$	z_{re}	11.42	$11.0^{+2.1}_{-2.2}$
τ	0.0931	$0.088^{+0.026}_{-0.024}$	$A_{218}^{\text{PS, ACT}}$	75.9	77^{+9}_{-9}	H_0	70.88	$73.2^{+4.9}_{-4.8}$
w	-1.012	$-1.28^{+0.50}_{-0.44}$	$A_{95}^{\text{PS, SPT}}$	7.21	$7.62^{+3.0}_{-2.8}$	$10^9 A_s$	2.218	$2.19^{+0.11}_{-0.097}$
w_a	-0.53	$0.2^{+1.4}_{-1.6}$	$A_{150}^{\text{PS, SPT}}$	9.80	$10.05^{+0.99}_{-1.0}$	$\Omega_m h^2$	0.14407	$0.1440^{+0.0045}_{-0.0044}$
n_s	0.9555	$0.955^{+0.013}_{-0.012}$	$A_{220}^{\text{PS, SPT}}$	72.8	74^{+8}_{-9}	$\Omega_m h^3$	0.1021	$0.1054^{+0.0082}_{-0.0078}$
$\ln(10^{10} A_s)$	3.0992	$3.088^{+0.048}_{-0.045}$	$r_{95 \times 150}^{\text{PS}}$	0.800	> 0.685	Y_{P}	0.247704	$0.24768^{+0.00022}_{-0.00021}$
A_{100}^{PS}	206	216^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.555	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8411	$1.839^{+0.023}_{-0.023}$
A_{143}^{PS}	72.5	74^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9128	$0.937^{+0.047}_{-0.045}$	Age/Gyr	13.712	$13.742^{+0.098}_{-0.092}$
A_{217}^{PS}	60.6	60^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.420	$0.44^{+0.37}_{-0.39}$	z_*	1090.55	$1090.63^{+0.88}_{-0.89}$
A_{143}^{CIB}	3.21	$3.24^{+1.6}_{-1.6}$	$A_{\text{dust}}^{\text{ACTe}}$	0.836	$0.85^{+0.39}_{-0.38}$	r_*	144.31	$144.4^{+1.1}_{-1.1}$
A_{217}^{CIB}	52.3	50^{+10}_{-9}	y_{148}^{ACTs}	0.9917	$0.992^{+0.014}_{-0.014}$	$100\theta_*$	1.04138	$1.0413^{+0.0012}_{-0.0011}$
A_{143}^{tSZ}	4.66	< 4.96	y_{217}^{ACTs}	1.0019	$1.005^{+0.027}_{-0.026}$	z_{drag}	1059.40	$1059.2^{+1.1}_{-1.0}$
$r_{143 \times 217}^{\text{PS}}$	0.822	$0.82^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9878	$0.988^{+0.014}_{-0.014}$	r_{drag}	147.07	$147.2^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.851	y_{217}^{ACTe}	0.9602	$0.963^{+0.020}_{-0.020}$	k_{D}	0.14054	$0.1404^{+0.0012}_{-0.0012}$
γ^{CIB}	0.657	$0.64^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9838	$0.983^{+0.040}_{-0.037}$	$100\theta_{\text{D}}$	0.16132	$0.16140^{+0.00061}_{-0.00062}$
c_{100}	1.00059	$1.00059^{+0.00080}_{-0.00078}$	y_{150}^{SPT}	0.9843	$0.987^{+0.019}_{-0.019}$	z_{eq}	3427	3424^{+110}_{-110}
c_{217}	0.99731	$0.9974^{+0.0027}_{-0.0027}$	y_{220}^{SPT}	1.0150	$1.024^{+0.046}_{-0.043}$	$100\theta_{\text{eq}}$	0.8083	$0.809^{+0.020}_{-0.019}$
$\xi^{\text{tSZ-CIB}}$	0.008	< 0.828	Ω_{Λ}	0.7132	$0.731^{+0.036}_{-0.038}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07261	$0.0721^{+0.0015}_{-0.0014}$

Best-fit $\chi_{\text{eff}}^2 = 10512.13$; R-1 = 0.02101

χ_{eff}^2 : BAO - DR9: 1.47 DR7: 0.04 6DF: 0.59 CMB - lowLike: 2014.66 lowl: -5.67 CamSpec: 7807.08 highL: 692.33 Hubble - HST: 1.53

19.6 base_w_wa_planck_lowl_lowLike_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02209^{+0.00054}_{-0.00053}$	A_{143}^{tSZ}	9.86	—	$\Omega_m h^2$	0.14254	$0.1424^{+0.0049}_{-0.0049}$
$\Omega_c h^2$	0.1198	$0.1196^{+0.0052}_{-0.0051}$	$r_{143 \times 217}^{\text{PS}}$	0.900	> 0.739	$\Omega_m h^3$	0.1055	$0.1040^{+0.0063}_{-0.0066}$
$100\theta_{\text{MC}}$	1.04135	$1.0414^{+0.0012}_{-0.0012}$	$r_{143 \times 217}^{\text{CIB}}$	0.488	< 0.797	Y_{P}	0.247731	$0.24772^{+0.00023}_{-0.00023}$
τ	0.0859	$0.089^{+0.027}_{-0.026}$	γ^{CIB}	0.521	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8373	$1.835^{+0.025}_{-0.025}$
w	-0.829	$-0.93^{+0.26}_{-0.29}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	Age/Gyr	13.604	$13.65^{+0.16}_{-0.15}$
w_a	-1.71	< 0.142	c_{217}	0.99632	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.33	$1090.4^{+1.0}_{-1.0}$
n_s	0.9618	$0.961^{+0.014}_{-0.014}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.00	—	r_*	144.67	$144.7^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.0826	$3.088^{+0.051}_{-0.047}$	A^{kSZ}	0.1	—	$100\theta_*$	1.04150	$1.0415^{+0.0012}_{-0.0012}$
α_{SNLS}	1.428	$1.43^{+0.22}_{-0.20}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.40	$1059.3^{+1.1}_{-1.1}$
β_{SNLS}	3.265	$3.27^{+0.22}_{-0.21}$	Ω_{Λ}	0.7400	$0.733^{+0.039}_{-0.039}$	r_{drag}	147.42	$147.5^{+1.2}_{-1.2}$
A_{100}^{PS}	129	169^{+100}_{-100}	Ω_m	0.2600	$0.267^{+0.039}_{-0.039}$	k_{D}	0.14022	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{PS}	51.4	54^{+30}_{-30}	σ_8	0.894	$0.884^{+0.050}_{-0.053}$	$100\theta_{\text{D}}$	0.16129	$0.16135^{+0.00065}_{-0.00063}$
A_{217}^{PS}	117.1	107^{+30}_{-30}	z_{re}	10.70	$11.0^{+2.2}_{-2.2}$	z_{eq}	3391	3386^{+120}_{-120}
A_{143}^{CIB}	3.09	—	H_0	74.05	$73.1^{+4.7}_{-4.7}$	$100\theta_{\text{eq}}$	0.8150	$0.816^{+0.022}_{-0.022}$
A_{217}^{CIB}	27.3	29^{+20}_{-10}	$10^9 A_s$	2.182	$2.19^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07481	$0.0741^{+0.0026}_{-0.0029}$

Best-fit $\chi_{\text{eff}}^2 = 10223.33$; R-1 = 0.00820

χ_{eff}^2 : CMB - lowLike: 2014.39 lowl: -7.63 CamSpec: 7796.52 SN - SNLS: 419.24

19.7 base_w_wa_planck_lowl_lowLike_SNLS_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02235	$0.02223^{+0.00052}_{-0.00052}$	A_{143}^{tSZ}	7.47	—	$\Omega_m h^2$	0.14017	$0.1407^{+0.0040}_{-0.0040}$
$\Omega_c h^2$	0.11718	$0.1178^{+0.0042}_{-0.0042}$	$r_{143 \times 217}^{\text{PS}}$	0.937	> 0.728	$\Omega_m h^3$	0.1039	$0.1035^{+0.0062}_{-0.0065}$
$100\theta_{\text{MC}}$	1.04166	$1.0416^{+0.0012}_{-0.0012}$	$r_{143 \times 217}^{\text{CIB}}$	0.490	< 0.802	Y_{P}	0.247829	$0.24778^{+0.00022}_{-0.00022}$
τ	0.0965	$0.088^{+0.026}_{-0.026}$	γ^{CIB}	0.544	$0.53^{+0.24}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8279	$1.827^{+0.020}_{-0.021}$
w	-0.949	$-0.92^{+0.26}_{-0.29}$	c_{100}	1.00060	$1.00059^{+0.00078}_{-0.00079}$	Age/Gyr	13.606	$13.63^{+0.16}_{-0.15}$
w_a	-0.92	< 0.140	c_{217}	0.99623	$0.9964^{+0.0026}_{-0.0027}$	z_*	1089.80	$1090.01^{+0.91}_{-0.89}$
n_s	0.9697	$0.965^{+0.013}_{-0.013}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.19	—	r_*	145.17	$145.11^{+0.96}_{-0.96}$
$\ln(10^{10} A_s)$	3.0987	$3.082^{+0.049}_{-0.044}$	A^{kSZ}	1.81	—	$100\theta_*$	1.04179	$1.0417^{+0.0012}_{-0.0012}$
α_{SNLS}	1.425	$1.43^{+0.22}_{-0.21}$	β_1^1	0.64	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.74	$1059.5^{+1.1}_{-1.1}$
β_{SNLS}	3.263	$3.27^{+0.22}_{-0.21}$	Ω_Λ	0.7448	$0.740^{+0.037}_{-0.038}$	r_{drag}	147.86	$147.84^{+0.97}_{-0.97}$
A_{100}^{PS}	129	167^{+100}_{-100}	Ω_m	0.2552	$0.260^{+0.038}_{-0.037}$	k_{D}	0.13994	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{PS}	55.2	51^{+30}_{-30}	σ_8	0.8806	$0.872^{+0.043}_{-0.046}$	$100\theta_{\text{D}}$	0.16111	$0.16124^{+0.00064}_{-0.00061}$
A_{217}^{PS}	119.7	104^{+30}_{-30}	z_{re}	11.49	$10.8^{+2.2}_{-2.1}$	z_{eq}	3334	3346^{+95}_{-95}
A_{143}^{CIB}	0.0	—	H_0	74.12	$73.6^{+4.7}_{-4.8}$	$100\theta_{\text{eq}}$	0.8262	$0.824^{+0.019}_{-0.018}$
A_{217}^{CIB}	23	29^{+20}_{-10}	$10^9 A_s$	2.217	$2.18^{+0.11}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07494	$0.0747^{+0.0027}_{-0.0028}$

Best-fit $\chi_{\text{eff}}^2 = 10234.16$; R-1 = 0.00984

χ_{eff}^2 : CMB - lowLike: 2014.54 lensing: 9.55 lowl: -8.29 CamSpec: 7798.23 SN - SNLS: 419.52

19.8 base_w_wa_planck_lowl_lowLike_SNLS_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02205	$0.02195^{+0.00053}_{-0.00051}$	A^{tSZ}_{143}	4.78	—	$\Omega_m h^2$	0.14372	$0.1442^{+0.0046}_{-0.0047}$
$\Omega_c h^2$	0.12102	$0.1216^{+0.0048}_{-0.0049}$	$r^{\text{PS}}_{143 \times 217}$	0.933	> 0.746	$\Omega_m h^3$	0.1011	$0.1018^{+0.0059}_{-0.0059}$
$100\theta_{\text{MC}}$	1.04116	$1.0411^{+0.0012}_{-0.0012}$	$r^{\text{CIB}}_{143 \times 217}$	0.653	< 0.797	Y_{P}	0.247703	$0.24766^{+0.00023}_{-0.00022}$
τ	0.0924	$0.086^{+0.025}_{-0.025}$	γ^{CIB}	0.552	$0.54^{+0.25}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8450	$1.843^{+0.024}_{-0.025}$
w	-1.012	$-1.03^{+0.28}_{-0.28}$	c_{100}	1.00059	$1.00058^{+0.00079}_{-0.00077}$	Age/Gyr	13.728	$13.741^{+0.098}_{-0.098}$
w_a	-0.44	$-0.5^{+1.1}_{-1.3}$	c_{217}	0.99650	$0.9965^{+0.0027}_{-0.0026}$	z_*	1090.52	$1090.71^{+0.97}_{-1.0}$
n_s	0.9616	$0.957^{+0.014}_{-0.013}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.42	—	r_*	144.40	$144.3^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0999	$3.087^{+0.048}_{-0.049}$	A^{kSZ}	0.2	—	$100\theta_*$	1.04131	$1.0412^{+0.0012}_{-0.0012}$
α_{SNLS}	1.421	$1.43^{+0.22}_{-0.21}$	β_1^1	0.72	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.36	$1059.1^{+1.1}_{-1.1}$
β_{SNLS}	3.254	$3.26^{+0.22}_{-0.21}$	Ω_{Λ}	0.7098	$0.710^{+0.026}_{-0.028}$	r_{drag}	147.17	$147.1^{+1.1}_{-1.1}$
A^{PS}_{100}	166	171^{+100}_{-100}	Ω_m	0.2902	$0.290^{+0.028}_{-0.026}$	k_{D}	0.14043	$0.1404^{+0.0012}_{-0.0012}$
A^{PS}_{143}	68.6	55^{+30}_{-30}	σ_8	0.874	$0.874^{+0.052}_{-0.054}$	$100\theta_{\text{D}}$	0.16132	$0.16145^{+0.00064}_{-0.00064}$
A^{PS}_{217}	122.4	108^{+30}_{-30}	z_{re}	11.35	$10.8^{+2.2}_{-2.1}$	z_{eq}	3419	3430^{+110}_{-110}
A^{CIB}_{143}	0.0	—	H_0	70.38	$70.6^{+3.2}_{-3.1}$	$100\theta_{\text{eq}}$	0.8097	$0.808^{+0.021}_{-0.021}$
A^{CIB}_{217}	25	29^{+20}_{-10}	$10^9 A_s$	2.220	$2.19^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07248	$0.0723^{+0.0013}_{-0.0013}$

Best-fit $\chi^2_{\text{eff}} = 10227.43$; R-1 = 0.02872

χ^2_{eff} : BAO - DR7: 0.00 6DF: 0.44 DR9: 1.21 CMB - lowLike: 2014.55 lowl: -6.97 CamSpec: 7796.93 SN - SNLS: 420.72

19.9 base_w_wa_planck_lowl_lowLike_SNLS_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02215	$0.02210^{+0.00053}_{-0.00052}$	A_{143}^{tSZ}	7.09	—	$\Omega_m h^2$	0.14254	$0.1423^{+0.0048}_{-0.0048}$
$\Omega_c h^2$	0.1197	$0.1195^{+0.0050}_{-0.0050}$	$r_{143 \times 217}^{\text{PS}}$	0.947	> 0.739	$\Omega_m h^3$	0.1050	$0.1045^{+0.0052}_{-0.0052}$
$100\theta_{\text{MC}}$	1.04137	$1.0414^{+0.0012}_{-0.0012}$	$r_{143 \times 217}^{\text{CIB}}$	0.673	< 0.798	Y_{P}	0.247747	$0.24772^{+0.00023}_{-0.00023}$
τ	0.0941	$0.089^{+0.027}_{-0.024}$	γ^{CIB}	0.558	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8394	$1.835^{+0.025}_{-0.025}$
w	-0.998	$-0.93^{+0.25}_{-0.28}$	c_{100}	1.00059	$1.00059^{+0.00079}_{-0.00077}$	Age/Gyr	13.641	$13.64^{+0.12}_{-0.12}$
w_a	-0.87	< -0.0670	c_{217}	0.99638	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.27	$1090.33^{+0.99}_{-0.97}$
n_s	0.9641	$0.961^{+0.014}_{-0.014}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.24	—	r_*	144.65	$144.8^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.1002	$3.088^{+0.051}_{-0.047}$	A^{kSZ}	0.4	—	$100\theta_*$	1.04152	$1.0415^{+0.0012}_{-0.0012}$
α_{SNLS}	1.426	$1.43^{+0.22}_{-0.20}$	β_1^1	0.73	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.47	$1059.3^{+1.1}_{-1.1}$
β_{SNLS}	3.260	$3.27^{+0.22}_{-0.21}$	Ω_{Λ}	0.7375	$0.736^{+0.026}_{-0.029}$	r_{drag}	147.39	$147.5^{+1.1}_{-1.1}$
A_{100}^{PS}	141	169^{+100}_{-100}	Ω_m	0.2625	$0.264^{+0.029}_{-0.026}$	k_{D}	0.14028	$0.1401^{+0.0012}_{-0.0012}$
A_{143}^{PS}	61.0	53^{+30}_{-30}	σ_8	0.8965	$0.887^{+0.046}_{-0.046}$	$100\theta_{\text{D}}$	0.16125	$0.16135^{+0.00064}_{-0.00062}$
A_{217}^{PS}	123.2	107^{+30}_{-30}	z_{re}	11.42	$11.0^{+2.2}_{-2.2}$	z_{eq}	3391	3384^{+110}_{-110}
A_{143}^{CIB}	0.0	—	H_0	73.68	$73.4^{+3.4}_{-3.3}$	$100\theta_{\text{eq}}$	0.8151	$0.816^{+0.022}_{-0.021}$
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.220	$2.19^{+0.11}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07398	$0.0743^{+0.0022}_{-0.0023}$

Best-fit $\chi_{\text{eff}}^2 = 10224.00$; R-1 = 0.00779

χ_{eff}^2 : CMB - lowLike: 2014.61 lowl: -7.57 CamSpec: 7796.63 Hubble - HST: 0.01 SN - SNLS: 419.81

19.10 base_w_wa_planck_lowl_lowLike_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02212	$0.02206^{+0.00056}_{-0.00054}$	$r_{143 \times 217}^{\text{CIB}}$	0.000	< 0.817	Y_P	0.247735	$0.24771^{+0.00024}_{-0.00024}$
$\Omega_c h^2$	0.1200	$0.1200^{+0.0053}_{-0.0051}$	γ^{CIB}	0.539	$0.53^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8416	$1.836^{+0.026}_{-0.025}$
$100\theta_{\text{MC}}$	1.04132	$1.0413^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00078}$	Age/Gyr	13.710	$13.72^{+0.20}_{-0.18}$
τ	0.0931	$0.089^{+0.027}_{-0.024}$	c_{217}	0.99647	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.34	$1090.4^{+1.1}_{-1.0}$
w	-0.990	$-0.96^{+0.38}_{-0.41}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	144.60	$144.7^{+1.1}_{-1.2}$
w_a	-0.49	< 0.752	A^{kSZ}	0.0	—	$100\theta_*$	1.04147	$1.0415^{+0.0012}_{-0.0012}$
n_s	0.9640	$0.960^{+0.014}_{-0.014}$	β_1^1	0.74	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.44	$1059.3^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0995	$3.089^{+0.051}_{-0.047}$	Ω_Λ	0.7141	$0.711^{+0.046}_{-0.049}$	r_{drag}	147.35	$147.4^{+1.1}_{-1.2}$
A_{100}^{PS}	149	170^{+100}_{-100}	Ω_m	0.2859	$0.289^{+0.049}_{-0.046}$	k_D	0.14031	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{PS}	60.7	53^{+30}_{-30}	σ_8	0.870	$0.861^{+0.058}_{-0.061}$	$100\theta_D$	0.16127	$0.16137^{+0.00065}_{-0.00064}$
A_{217}^{PS}	123.7	107^{+30}_{-30}	z_{re}	11.36	$11.0^{+2.2}_{-2.1}$	z_{eq}	3397	3394^{+120}_{-110}
A_{143}^{CIB}	1.46	—	H_0	70.7	$70.4^{+5.2}_{-5.2}$	$100\theta_{\text{eq}}$	0.8138	$0.814^{+0.022}_{-0.022}$
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.219	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07289	$0.0729^{+0.0032}_{-0.0033}$
A_{143}^{tSZ}	6.13	—	$\Omega_m h^2$	0.14282	$0.1427^{+0.0051}_{-0.0048}$			
$r_{143 \times 217}^{\text{PS}}$	0.892	> 0.736	$\Omega_m h^3$	0.1009	$0.1005^{+0.0075}_{-0.0075}$			

Best-fit $\chi_{\text{eff}}^2 = 9934.63$; R-1 = 0.01253

χ_{eff}^2 : CMB - lowLike: 2014.51 lowl: -7.38 CamSpec: 7796.86 SN - Union2.1: 129.99

19.11 base_w_wa_planck_lowl_lowLike_Union2_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02228	$0.02217^{+0.00055}_{-0.00052}$	$r_{143 \times 217}^{\text{CIB}}$	0.47	—	Y_P	0.247803	$0.24775^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11758	$0.1183^{+0.0043}_{-0.0042}$	γ^{CIB}	0.560	$0.53^{+0.24}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8299	$1.828^{+0.021}_{-0.020}$
$100\theta_{\text{MC}}$	1.04159	$1.0415^{+0.0012}_{-0.0012}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00078}$	Age/Gyr	13.693	$13.70^{+0.20}_{-0.18}$
τ	0.0951	$0.089^{+0.026}_{-0.024}$	c_{217}	0.99636	$0.9964^{+0.0027}_{-0.0027}$	z_*	1089.92	$1090.13^{+0.95}_{-0.94}$
w	-0.972	$-0.94^{+0.37}_{-0.41}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	145.11	$145.03^{+0.96}_{-0.97}$
w_a	-0.42	< 0.722	A^{kSZ}	0.6	—	$100\theta_*$	1.04172	$1.0416^{+0.0011}_{-0.0011}$
n_s	0.9685	$0.963^{+0.013}_{-0.013}$	β_1^1	0.66	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.63	$1059.4^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0970	$3.084^{+0.048}_{-0.044}$	Ω_Λ	0.7204	$0.717^{+0.045}_{-0.048}$	r_{drag}	147.82	$147.77^{+0.97}_{-0.98}$
A_{100}^{PS}	150	169^{+100}_{-100}	Ω_m	0.2796	$0.283^{+0.048}_{-0.045}$	k_D	0.13993	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{PS}	61.7	52^{+30}_{-30}	σ_8	0.853	$0.850^{+0.050}_{-0.051}$	$100\theta_D$	0.16117	$0.16130^{+0.00065}_{-0.00063}$
A_{217}^{PS}	117.4	105^{+30}_{-30}	z_{re}	11.42	$10.9^{+2.1}_{-2.1}$	z_{eq}	3342	3356^{+97}_{-93}
A_{143}^{CIB}	0.0	—	H_0	70.9	$70.8^{+5.2}_{-5.3}$	$100\theta_{\text{eq}}$	0.8245	$0.822^{+0.019}_{-0.019}$
A_{217}^{CIB}	26	29^{+20}_{-10}	$10^9 A_s$	2.213	$2.18^{+0.11}_{-0.095}$	$r_{\text{drag}}/D_V(0.57)$	0.07351	$0.0735^{+0.0032}_{-0.0034}$
A_{143}^{tSZ}	6.57	—	$\Omega_m h^2$	0.14051	$0.1411^{+0.0041}_{-0.0039}$			
$r_{143 \times 217}^{\text{PS}}$	0.888	> 0.728	$\Omega_m h^3$	0.0996	$0.0999^{+0.0073}_{-0.0071}$			

Best-fit $\chi_{\text{eff}}^2 = 9945.00$; R-1 = 0.01812

χ_{eff}^2 : CMB - lowLike: 2014.42 lensing: 9.59 lowl: -8.01 CamSpec: 7798.54 SN - Union2.1: 129.98

19.12 base_w_wa_planck_lowl_lowLike_Union2_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02208	$0.02199^{+0.00053}_{-0.00051}$	$r_{143 \times 217}^{\text{CIB}}$	0.338	< 0.823	Y_P	0.247715	$0.24767^{+0.00023}_{-0.00022}$
$\Omega_c h^2$	0.12080	$0.1209^{+0.0048}_{-0.0047}$	γ^{CIB}	0.547	$0.54^{+0.23}_{-0.25}$	$10^9 A_s e^{-2\tau}$	1.8441	$1.840^{+0.024}_{-0.024}$
$100\theta_{\text{MC}}$	1.04123	$1.0412^{+0.0012}_{-0.0012}$	c_{100}	1.00060	$1.00059^{+0.00075}_{-0.00078}$	Age/Gyr	13.748	$13.76^{+0.10}_{-0.093}$
τ	0.0917	$0.088^{+0.026}_{-0.025}$	c_{217}	0.99642	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.46	$1090.60^{+0.98}_{-0.97}$
w	-0.994	$-1.01^{+0.36}_{-0.34}$	$\xi^{\text{tSZ-CIB}}$	0.23	—	r_*	144.44	$144.5^{+1.1}_{-1.1}$
w_a	-0.34	$-0.3^{+1.2}_{-1.3}$	A^{kSZ}	0.4	—	$100\theta_*$	1.04138	$1.0413^{+0.0012}_{-0.0012}$
n_s	0.9616	$0.958^{+0.014}_{-0.013}$	β_1^1	0.72	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.40	$1059.2^{+1.1}_{-1.0}$
$\ln(10^{10} A_s)$	3.0980	$3.088^{+0.049}_{-0.049}$	Ω_Λ	0.7015	$0.703^{+0.034}_{-0.034}$	r_{drag}	147.20	$147.3^{+1.1}_{-1.1}$
A_{100}^{PS}	146	171^{+100}_{-100}	Ω_m	0.2985	$0.297^{+0.034}_{-0.034}$	k_D	0.14042	$0.1403^{+0.0012}_{-0.0012}$
A_{143}^{PS}	63.7	54^{+30}_{-30}	σ_8	0.861	$0.859^{+0.055}_{-0.055}$	$100\theta_D$	0.16130	$0.16143^{+0.00064}_{-0.00064}$
A_{217}^{PS}	123.2	107^{+30}_{-30}	z_{re}	11.28	$10.9^{+2.2}_{-2.1}$	z_{eq}	3414	3415^{+110}_{-110}
A_{143}^{CIB}	0.0	—	H_0	69.34	$69.6^{+3.9}_{-3.7}$	$100\theta_{\text{eq}}$	0.8106	$0.810^{+0.020}_{-0.020}$
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.215	$2.19^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07221	$0.0721^{+0.0014}_{-0.0014}$
A_{143}^{tSZ}	6.44	—	$\Omega_m h^2$	0.14352	$0.1436^{+0.0046}_{-0.0045}$			
$r_{143 \times 217}^{\text{PS}}$	0.927	> 0.739	$\Omega_m h^3$	0.0995	$0.0999^{+0.0067}_{-0.0063}$			

Best-fit $\chi_{\text{eff}}^2 = 9936.06$; R-1 = 0.01549

χ_{eff}^2 : BAO - DR7: 0.17 6DF: 0.21 DR9: 0.76 CMB - lowLike: 2014.47 lowl: -6.90 CamSpec: 7796.86 SN - Union2.1: 129.90

19.13 base_w_wa_planck_lowl_lowLike_Union2_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02216	$0.02211^{+0.00056}_{-0.00053}$	$r_{143 \times 217}^{\text{CIB}}$	0.44	—	Y_P	0.247750	$0.24773^{+0.00024}_{-0.00023}$
$\Omega_c h^2$	0.1195	$0.1195^{+0.0052}_{-0.0049}$	γ^{CIB}	0.560	$0.53^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8384	$1.835^{+0.026}_{-0.024}$
$100\theta_{\text{MC}}$	1.04140	$1.0414^{+0.0012}_{-0.0012}$	c_{100}	1.00061	$1.00059^{+0.00078}_{-0.00079}$	Age/Gyr	13.667	$13.67^{+0.14}_{-0.14}$
τ	0.0942	$0.090^{+0.027}_{-0.025}$	c_{217}	0.99643	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.24	$1090.3^{+1.0}_{-1.0}$
w	-0.991	$-0.96^{+0.34}_{-0.39}$	$\xi^{\text{tSZ-CIB}}$	0.25	—	r_*	144.71	$144.8^{+1.1}_{-1.2}$
w_a	-0.69	< 0.505	A^{kSZ}	0.8	—	$100\theta_*$	1.04155	$1.0416^{+0.0012}_{-0.0012}$
n_s	0.9646	$0.961^{+0.014}_{-0.014}$	β_1^1	0.73	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.47	$1059.4^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0999	$3.090^{+0.051}_{-0.047}$	Ω_Λ	0.7286	$0.727^{+0.030}_{-0.031}$	r_{drag}	147.45	$147.5^{+1.1}_{-1.2}$
A_{100}^{PS}	145	168^{+100}_{-100}	Ω_m	0.2714	$0.273^{+0.031}_{-0.030}$	k_D	0.14023	$0.1401^{+0.0013}_{-0.0012}$
A_{143}^{PS}	61.3	53^{+30}_{-30}	σ_8	0.8825	$0.876^{+0.049}_{-0.049}$	$100\theta_D$	0.16125	$0.16133^{+0.00065}_{-0.00064}$
A_{217}^{PS}	121.8	107^{+30}_{-30}	z_{re}	11.42	$11.1^{+2.2}_{-2.2}$	z_{eq}	3385	3384^{+120}_{-110}
A_{143}^{CIB}	0.0	—	H_0	72.41	$72.3^{+3.5}_{-3.6}$	$100\theta_{\text{eq}}$	0.8162	$0.816^{+0.022}_{-0.022}$
A_{217}^{CIB}	24	29^{+20}_{-10}	$10^9 A_s$	2.220	$2.20^{+0.12}_{-0.10}$	$r_{\text{drag}}/D_V(0.57)$	0.07363	$0.0737^{+0.0025}_{-0.0027}$
A_{143}^{tSZ}	6.69	—	$\Omega_m h^2$	0.14230	$0.1423^{+0.0050}_{-0.0047}$			
$r_{143 \times 217}^{\text{PS}}$	0.942	> 0.736	$\Omega_m h^3$	0.1030	$0.1028^{+0.0058}_{-0.0057}$			

Best-fit $\chi_{\text{eff}}^2 = 9935.45$; R-1 = 0.01502

χ_{eff}^2 : CMB - lowLike: 2014.57 lowl: -7.57 CamSpec: 7796.91 Hubble - HST: 0.36 SN - Union2.1: 130.69

19.14 base_w_wa_planck_lowl_lowLike_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02214	$0.02207^{+0.00056}_{-0.00055}$	$r_{143 \times 217}^{\text{CIB}}$	0.708	< 0.805	Y_P	0.247742	$0.24771^{+0.00024}_{-0.00024}$
$\Omega_c h^2$	0.1199	$0.1199^{+0.0052}_{-0.0051}$	γ^{CIB}	0.547	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8403	$1.836^{+0.025}_{-0.025}$
$100\theta_{\text{MC}}$	1.04137	$1.0413^{+0.0012}_{-0.0012}$	c_{100}	1.00057	$1.00058^{+0.00078}_{-0.00077}$	Age/Gyr	13.633	$13.67^{+0.16}_{-0.14}$
τ	0.0923	$0.089^{+0.027}_{-0.026}$	c_{217}	0.99649	$0.9964^{+0.0027}_{-0.0027}$	z_*	1090.30	$1090.4^{+1.0}_{-1.0}$
w	-1.01	$-1.11^{+0.49}_{-0.57}$	$\xi^{\text{tSZ-CIB}}$	0.14	—	r_*	144.63	$144.7^{+1.2}_{-1.2}$
w_a	-0.91	< 1.19	A^{kSZ}	0.4	—	$100\theta_*$	1.04152	$1.0415^{+0.0012}_{-0.0012}$
n_s	0.9634	$0.960^{+0.014}_{-0.014}$	β_1^1	0.72	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.47	$1059.3^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0971	$3.089^{+0.051}_{-0.047}$	Ω_Λ	0.7415	$0.741^{+0.037}_{-0.038}$	r_{drag}	147.37	$147.4^{+1.1}_{-1.2}$
A_{100}^{PS}	161	169^{+100}_{-100}	Ω_m	0.2585	$0.259^{+0.038}_{-0.037}$	k_D	0.14029	$0.1402^{+0.0012}_{-0.0012}$
A_{143}^{PS}	67.0	53^{+30}_{-30}	σ_8	0.901	$0.896^{+0.063}_{-0.062}$	$100\theta_D$	0.16126	$0.16136^{+0.00068}_{-0.00065}$
A_{217}^{PS}	120.6	107^{+30}_{-30}	z_{re}	11.27	$11.0^{+2.2}_{-2.2}$	z_{eq}	3393	3393^{+120}_{-110}
A_{143}^{CIB}	0.0	—	H_0	74.3	$74.4^{+5.1}_{-5.2}$	$100\theta_{\text{eq}}$	0.8146	$0.815^{+0.022}_{-0.022}$
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.213	$2.20^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07408	$0.0736^{+0.0026}_{-0.0030}$
A_{143}^{tSZ}	5.49	—	$\Omega_m h^2$	0.14266	$0.1427^{+0.0049}_{-0.0048}$			
$r_{143 \times 217}^{\text{PS}}$	0.895	> 0.739	$\Omega_m h^3$	0.1060	$0.1061^{+0.0084}_{-0.0083}$			

Best-fit $\chi_{\text{eff}}^2 = 9804.14$; R-1 = 0.01155

χ_{eff}^2 : CMB - lowLike: 2014.52 lowl: -7.54 CamSpec: 7796.56 Hubble - HST: 0.02

19.15 base_w_wa_planck_lowl_lowLike_HST_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02229	$0.02217^{+0.00054}_{-0.00054}$	$r_{143 \times 217}^{\text{CIB}}$	0.399	< 0.808	Y_P	0.247807	$0.24775^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.11744	$0.1182^{+0.0043}_{-0.0044}$	γ^{CIB}	0.549	$0.53^{+0.24}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8293	$1.828^{+0.021}_{-0.020}$
$100\theta_{\text{MC}}$	1.04158	$1.0415^{+0.0012}_{-0.0012}$	c_{100}	1.00057	$1.00059^{+0.00078}_{-0.00077}$	Age/Gyr	13.621	$13.65^{+0.17}_{-0.15}$
τ	0.0943	$0.088^{+0.026}_{-0.024}$	c_{217}	0.99634	$0.9964^{+0.0027}_{-0.0027}$	z_*	1089.89	$1090.12^{+0.96}_{-0.92}$
w	-0.99	$-1.07^{+0.49}_{-0.58}$	$\xi^{\text{tSZ-CIB}}$	0.20	—	r_*	145.14	$145.05^{+0.96}_{-0.99}$
w_a	-0.77	< 1.17	A^{kSZ}	1.11	—	$100\theta_*$	1.04171	$1.0416^{+0.0012}_{-0.0012}$
n_s	0.9688	$0.964^{+0.013}_{-0.013}$	β_1^1	0.58	$0.5^{+1.1}_{-1.1}$	z_{drag}	1059.67	$1059.4^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0951	$3.083^{+0.046}_{-0.044}$	Ω_Λ	0.7444	$0.744^{+0.036}_{-0.038}$	r_{drag}	147.85	$147.79^{+0.97}_{-1.0}$
A_{100}^{PS}	148	169^{+100}_{-100}	Ω_m	0.2556	$0.256^{+0.038}_{-0.036}$	k_D	0.13991	$0.1399^{+0.0011}_{-0.0011}$
A_{143}^{PS}	62.7	52^{+30}_{-30}	σ_8	0.881	$0.880^{+0.053}_{-0.052}$	$100\theta_D$	0.16116	$0.16129^{+0.00066}_{-0.00065}$
A_{217}^{PS}	118.5	106^{+30}_{-40}	z_{re}	11.33	$10.9^{+2.0}_{-2.1}$	z_{eq}	3339	3353^{+97}_{-98}
A_{143}^{CIB}	0.0	—	H_0	74.1	$74.3^{+5.2}_{-5.2}$	$100\theta_{\text{eq}}$	0.8251	$0.822^{+0.018}_{-0.019}$
A_{217}^{CIB}	25	29^{+20}_{-10}	$10^9 A_s$	2.209	$2.18^{+0.10}_{-0.095}$	$r_{\text{drag}}/D_V(0.57)$	0.07468	$0.0741^{+0.0027}_{-0.0031}$
A_{143}^{tSZ}	5.80	—	$\Omega_m h^2$	0.14038	$0.1410^{+0.0041}_{-0.0041}$			
$r_{143 \times 217}^{\text{PS}}$	0.909	> 0.735	$\Omega_m h^3$	0.1040	$0.1048^{+0.0082}_{-0.0079}$			

Best-fit $\chi_{\text{eff}}^2 = 9814.62$; R-1 = 0.01656

χ_{eff}^2 : CMB - lowLike: 2014.42 lensing: 9.60 lowl: -8.24 CamSpec: 7798.27 Hubble - HST: 0.01

19.16 base_w_wa_planck_lowl_lowLike_HST_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02198	$0.02196^{+0.00054}_{-0.00052}$	$r_{143 \times 217}^{\text{CIB}}$	0.471	< 0.810	Y_P	0.247671	$0.24766^{+0.00023}_{-0.00023}$
$\Omega_c h^2$	0.12103	$0.1213^{+0.0049}_{-0.0048}$	γ^{CIB}	0.518	$0.53^{+0.23}_{-0.26}$	$10^9 A_s e^{-2\tau}$	1.8403	$1.842^{+0.024}_{-0.024}$
$100\theta_{\text{MC}}$	1.04117	$1.0411^{+0.0013}_{-0.0012}$	c_{100}	1.00059	$1.00058^{+0.00077}_{-0.00076}$	Age/Gyr	13.750	$13.75^{+0.11}_{-0.10}$
τ	0.0756	$0.087^{+0.025}_{-0.024}$	c_{217}	0.99629	$0.9965^{+0.0027}_{-0.0027}$	z_*	1090.62	$1090.66^{+0.98}_{-0.97}$
w	-1.335	$-1.30^{+0.50}_{-0.46}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	r_*	144.45	$144.4^{+1.1}_{-1.1}$
w_a	0.46	$0.3^{+1.5}_{-1.6}$	A^{kSZ}	7.07	—	$100\theta_*$	1.04133	$1.0413^{+0.0012}_{-0.0012}$
n_s	0.9561	$0.957^{+0.014}_{-0.014}$	β_1^1	0.66	$0.6^{+1.1}_{-1.1}$	z_{drag}	1059.17	$1059.2^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.0637	$3.088^{+0.049}_{-0.046}$	Ω_Λ	0.7324	$0.732^{+0.037}_{-0.038}$	r_{drag}	147.25	$147.2^{+1.1}_{-1.1}$
A_{100}^{PS}	120	171^{+100}_{-100}	Ω_m	0.2676	$0.268^{+0.038}_{-0.037}$	k_D	0.14029	$0.1403^{+0.0012}_{-0.0012}$
A_{143}^{PS}	46.6	54^{+30}_{-30}	σ_8	0.880	$0.893^{+0.063}_{-0.062}$	$100\theta_D$	0.16143	$0.16144^{+0.00067}_{-0.00064}$
A_{217}^{PS}	110.4	108^{+30}_{-30}	z_{re}	9.87	$10.9^{+2.1}_{-2.2}$	z_{eq}	3417	3423^{+110}_{-110}
A_{143}^{CIB}	1.12	—	H_0	73.27	$73.4^{+4.9}_{-5.0}$	$100\theta_{\text{eq}}$	0.8098	$0.809^{+0.020}_{-0.020}$
A_{217}^{CIB}	26	29^{+20}_{-10}	$10^9 A_s$	2.141	$2.19^{+0.11}_{-0.11}$	$r_{\text{drag}}/D_V(0.57)$	0.07193	$0.0720^{+0.0015}_{-0.0014}$
A_{143}^{tSZ}	9.23	—	$\Omega_m h^2$	0.14365	$0.1439^{+0.0046}_{-0.0045}$			
$r_{143 \times 217}^{\text{PS}}$	0.884	> 0.741	$\Omega_m h^3$	0.1053	$0.1056^{+0.0083}_{-0.0083}$			

Best-fit $\chi_{\text{eff}}^2 = 9808.20$; R-1 = 0.02644

χ_{eff}^2 : BAO - DR9: 0.41 DR7: 0.04 6DF: 0.92 CMB - lowLike: 2015.16 lowl: -6.86 CamSpec: 7797.50 Hubble - HST: 0.21

20 yhe

20.1 base_yhe_planck_lowl_lowLike

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02208	$0.02239^{+0.00072}_{-0.00071}$	$r_{143 \times 217}^{\text{CIB}}$	0.36	—	$\Omega_m h^3$	0.09620	$0.0970^{+0.0019}_{-0.0019}$
$\Omega_c h^2$	0.1209	$0.1190^{+0.0052}_{-0.0052}$	γ^{CIB}	0.532	$0.54^{+0.24}_{-0.25}$	Y_{P}	0.2583	$0.283^{+0.045}_{-0.048}$
$100\theta_{\text{MC}}$	1.04140	$1.0426^{+0.0022}_{-0.0021}$	c_{100}	1.00058	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8497	$1.849^{+0.032}_{-0.030}$
τ	0.0902	$0.095^{+0.030}_{-0.029}$	c_{217}	0.99646	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.815	$13.74^{+0.14}_{-0.14}$
Y_{He}	0.2583	$0.283^{+0.045}_{-0.048}$	$\xi^{\text{tSZ-CIB}}$	0.08	—	z_*	1090.91	$1091.4^{+1.8}_{-1.7}$
n_s	0.9642	$0.975^{+0.025}_{-0.024}$	A^{kSZ}	1.42	—	r_*	144.36	$144.5^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.098	$3.108^{+0.061}_{-0.055}$	β_1^1	0.79	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04128	$1.0418^{+0.0013}_{-0.0013}$
A_{100}^{PS}	154	186^{+100}_{-100}	Ω_{Λ}	0.6796	$0.695^{+0.032}_{-0.034}$	z_{drag}	1059.78	$1061.2^{+2.9}_{-2.9}$
A_{143}^{PS}	66.9	59^{+30}_{-30}	Ω_m	0.3204	$0.305^{+0.034}_{-0.032}$	r_{drag}	147.12	$147.2^{+1.2}_{-1.2}$
A_{217}^{PS}	124.1	105^{+30}_{-40}	σ_8	0.8373	$0.838^{+0.030}_{-0.028}$	k_{D}	0.14007	$0.1392^{+0.0017}_{-0.0017}$
A_{143}^{CIB}	0.0	—	z_{re}	11.24	$11.7^{+2.5}_{-2.4}$	$100\theta_{\text{D}}$	0.16178	$0.1627^{+0.0019}_{-0.0019}$
A_{217}^{CIB}	24	32^{+20}_{-20}	H_0	66.96	$68.3^{+2.8}_{-2.6}$	z_{eq}	3418	3379^{+120}_{-110}
A_{143}^{tSZ}	6.30	—	$10^9 A_s$	2.215	$2.24^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8102	$0.819^{+0.023}_{-0.022}$
$r_{143 \times 217}^{\text{PS}}$	0.892	> 0.728	$\Omega_m h^2$	0.14367	$0.1421^{+0.0049}_{-0.0048}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07114	$0.0720^{+0.0020}_{-0.0019}$

Best-fit $\chi_{\text{eff}}^2 = 9805.27$; R-1 = 0.00617

χ_{eff}^2 : CMB - lowLike: 2014.40 lowl: -7.09 CamSpec: 7797.26

20.2 base_yhe_planck_lowl_lowLike_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02236	$0.02248^{+0.00072}_{-0.00068}$	$r_{143 \times 217}^{\text{CIB}}$	0.649	$0.50^{+0.37}_{-0.48}$	$\Omega_m h^3$	0.09698	$0.0970^{+0.0019}_{-0.0019}$
$\Omega_c h^2$	0.11932	$0.1179^{+0.0043}_{-0.0044}$	γ^{CIB}	0.511	$0.54^{+0.24}_{-0.26}$	Y_P	0.2849	$0.280^{+0.045}_{-0.047}$
$100\theta_{\text{MC}}$	1.04258	$1.0426^{+0.0021}_{-0.0021}$	c_{100}	1.00058	$1.00059^{+0.00078}_{-0.00080}$	$10^9 A_s e^{-2\tau}$	1.8468	$1.843^{+0.028}_{-0.027}$
τ	0.0783	$0.094^{+0.029}_{-0.028}$	c_{217}	0.99636	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.746	$13.73^{+0.13}_{-0.14}$
Y_{He}	0.2849	$0.280^{+0.045}_{-0.047}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.56	$1091.1^{+1.7}_{-1.6}$
n_s	0.9703	$0.977^{+0.024}_{-0.023}$	A^{kSZ}	10.0	—	r_*	144.47	$144.8^{+1.0}_{-1.0}$
$\ln(10^{10} A_s)$	3.073	$3.103^{+0.058}_{-0.056}$	β_1^1	0.56	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04170	$1.0419^{+0.0013}_{-0.0012}$
A_{100}^{PS}	151	183^{+100}_{-100}	Ω_Λ	0.6935	$0.701^{+0.027}_{-0.028}$	z_{drag}	1061.23	$1061.2^{+2.9}_{-2.8}$
A_{143}^{PS}	26	56^{+30}_{-30}	Ω_m	0.3065	$0.299^{+0.028}_{-0.027}$	r_{drag}	147.16	$147.4^{+1.1}_{-1.1}$
A_{217}^{PS}	90.1	103^{+30}_{-40}	σ_8	0.8240	$0.832^{+0.025}_{-0.023}$	k_D	0.13913	$0.1392^{+0.0016}_{-0.0016}$
A_{143}^{CIB}	12.4	—	z_{re}	10.22	$11.5^{+2.4}_{-2.3}$	$100\theta_D$	0.16281	$0.1625^{+0.0019}_{-0.0018}$
A_{217}^{CIB}	35.7	32^{+20}_{-20}	H_0	68.15	$68.8^{+2.4}_{-2.3}$	z_{eq}	3385	3355^{+95}_{-97}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.160	$2.23^{+0.13}_{-0.12}$	$100\theta_{\text{eq}}$	0.8176	$0.824^{+0.020}_{-0.018}$
$r_{143 \times 217}^{\text{PS}}$	0.883	> 0.726	$\Omega_m h^2$	0.14232	$0.1410^{+0.0040}_{-0.0041}$	$r_{\text{drag}}/D_V(0.57)$	0.07191	$0.0724^{+0.0017}_{-0.0016}$

Best-fit $\chi_{\text{eff}}^2 = 9815.31$; R-1 = 0.00834

χ_{eff}^2 : CMB - lowLike: 2014.83 lensing: 10.08 lowl: -8.40 CamSpec: 7797.91

20.3 base_yhe_planck_lowl_lowLike_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02232	$0.02240^{+0.00061}_{-0.00059}$	$r_{143 \times 217}^{\text{CIB}}$	0.58	—	$\Omega_m h^3$	0.09665	$0.0970^{+0.0018}_{-0.0018}$
$\Omega_c h^2$	0.11840	$0.1189^{+0.0034}_{-0.0033}$	γ^{CIB}	0.513	$0.54^{+0.24}_{-0.26}$	Y_P	0.2736	$0.283^{+0.043}_{-0.045}$
$100\theta_{\text{MC}}$	1.04236	$1.0427^{+0.0019}_{-0.0019}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8389	$1.849^{+0.030}_{-0.028}$
τ	0.0954	$0.095^{+0.028}_{-0.028}$	c_{217}	0.99634	$0.9965^{+0.0026}_{-0.0027}$	Age/Gyr	13.752	$13.74^{+0.11}_{-0.11}$
Y_{He}	0.2736	$0.283^{+0.043}_{-0.045}$	$\xi^{\text{tSZ}-\text{CIB}}$	0.00	—	z_*	1091.03	$1091.4^{+1.7}_{-1.7}$
n_s	0.9718	$0.976^{+0.020}_{-0.020}$	A^{kSZ}	6.67	—	r_*	144.78	$144.56^{+0.96}_{-0.96}$
$\ln(10^{10} A_s)$	3.102	$3.107^{+0.060}_{-0.054}$	β_1^1	0.60	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04180	$1.0418^{+0.0011}_{-0.0011}$
A_{100}^{PS}	135	186^{+100}_{-100}	Ω_Λ	0.6976	$0.696^{+0.020}_{-0.021}$	z_{drag}	1060.66	$1061.3^{+2.6}_{-2.6}$
A_{143}^{PS}	39	59^{+30}_{-30}	Ω_m	0.3024	$0.304^{+0.021}_{-0.020}$	r_{drag}	147.48	$147.2^{+1.1}_{-1.1}$
A_{217}^{PS}	103.4	105^{+30}_{-40}	σ_8	0.8327	$0.838^{+0.030}_{-0.027}$	k_D	0.13925	$0.1392^{+0.0014}_{-0.0014}$
A_{143}^{CIB}	6.80	—	z_{re}	11.65	$11.7^{+2.4}_{-2.3}$	$100\theta_D$	0.16234	$0.1627^{+0.0019}_{-0.0018}$
A_{217}^{CIB}	31.0	32^{+20}_{-20}	H_0	68.37	$68.4^{+1.7}_{-1.7}$	z_{eq}	3363	3376^{+80}_{-77}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.225	$2.24^{+0.13}_{-0.13}$	$100\theta_{\text{eq}}$	0.8214	$0.820^{+0.014}_{-0.014}$
$r_{143 \times 217}^{\text{PS}}$	0.882	> 0.729	$\Omega_m h^2$	0.14137	$0.1419^{+0.0033}_{-0.0032}$	$r_{\text{drag}}/D_V(0.57)$	0.07215	$0.0721^{+0.0012}_{-0.0012}$

Best-fit $\chi_{\text{eff}}^2 = 9805.71$; R-1 = 0.00695

χ_{eff}^2 : BAO - DR9: 0.68 DR7: 0.55 6DF: 0.06 CMB - lowLike: 2014.48 lowl: -8.14 CamSpec: 7797.21

20.4 base_yhe_planck_lowl_lowLike_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02270	$0.02268^{+0.00069}_{-0.00067}$	$r_{143 \times 217}^{\text{CIB}}$	0.63	—	$\Omega_m h^3$	0.09764	$0.0975^{+0.0018}_{-0.0018}$
$\Omega_c h^2$	0.11672	$0.1166^{+0.0047}_{-0.0047}$	γ^{CIB}	0.515	$0.53^{+0.24}_{-0.26}$	Y_P	0.3015	$0.295^{+0.042}_{-0.045}$
$100\theta_{\text{MC}}$	1.04361	$1.0434^{+0.0020}_{-0.0020}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8455	$1.845^{+0.031}_{-0.030}$
τ	0.0933	$0.101^{+0.031}_{-0.028}$	c_{217}	0.99646	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.670	$13.68^{+0.13}_{-0.13}$
Y_{He}	0.3015	$0.295^{+0.042}_{-0.045}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.62	$1091.3^{+1.7}_{-1.7}$
n_s	0.9846	$0.986^{+0.023}_{-0.023}$	A^{kSZ}	10.0	—	r_*	144.82	$144.9^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.102	$3.117^{+0.062}_{-0.057}$	β_1^1	0.66	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04224	$1.0422^{+0.0012}_{-0.0012}$
A_{100}^{PS}	148	189^{+100}_{-100}	Ω_Λ	0.7118	$0.711^{+0.027}_{-0.029}$	z_{drag}	1062.41	$1062.1^{+2.7}_{-2.7}$
A_{143}^{PS}	33	60^{+30}_{-30}	Ω_m	0.2882	$0.289^{+0.029}_{-0.027}$	r_{drag}	147.42	$147.5^{+1.2}_{-1.2}$
A_{217}^{PS}	95.3	104^{+30}_{-40}	σ_8	0.8301	$0.836^{+0.030}_{-0.029}$	k_D	0.13842	$0.1386^{+0.0016}_{-0.0016}$
A_{143}^{CIB}	10.1	—	z_{re}	11.51	$12.1^{+2.5}_{-2.4}$	$100\theta_D$	0.16334	$0.1630^{+0.0018}_{-0.0018}$
A_{217}^{CIB}	34.4	33^{+20}_{-20}	H_0	69.71	$69.7^{+2.4}_{-2.4}$	z_{eq}	3331	3329^{+110}_{-100}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.224	$2.26^{+0.14}_{-0.14}$	$100\theta_{\text{eq}}$	0.8292	$0.830^{+0.021}_{-0.020}$
$r_{143 \times 217}^{\text{PS}}$	0.872	> 0.722	$\Omega_m h^2$	0.14006	$0.1400^{+0.0044}_{-0.0044}$	$r_{\text{drag}}/D_V(0.57)$	0.07299	$0.0730^{+0.0018}_{-0.0017}$

Best-fit $\chi_{\text{eff}}^2 = 9807.42$; R-1 = 0.01502

χ_{eff}^2 : CMB - lowLike: 2014.19 lowl: -9.08 CamSpec: 7798.52 Hubble - HST: 2.94

20.5 base_yhe_planck_lowl_lowLike_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02253	$0.02256^{+0.00071}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.53	—	$\Omega_m h^3$	0.09721	$0.0972^{+0.0019}_{-0.0019}$
$\Omega_c h^2$	0.11742	$0.1174^{+0.0049}_{-0.0048}$	γ^{CIB}	0.529	$0.54^{+0.24}_{-0.26}$	Y_P	0.2915	$0.289^{+0.044}_{-0.046}$
$100\theta_{\text{MC}}$	1.04309	$1.0431^{+0.0021}_{-0.0021}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8439	$1.845^{+0.031}_{-0.030}$
τ	0.0942	$0.099^{+0.030}_{-0.030}$	c_{217}	0.99642	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.705	$13.70^{+0.13}_{-0.14}$
Y_{He}	0.2915	$0.289^{+0.044}_{-0.046}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.44	$1091.3^{+1.7}_{-1.7}$
n_s	0.9800	$0.981^{+0.024}_{-0.024}$	A^{kSZ}	10.0	—	r_*	144.80	$144.8^{+1.1}_{-1.1}$
$\ln(10^{10} A_s)$	3.103	$3.113^{+0.064}_{-0.057}$	β_1^1	0.64	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04201	$1.0420^{+0.0012}_{-0.0013}$
A_{100}^{PS}	148	187^{+100}_{-100}	Ω_Λ	0.7059	$0.706^{+0.029}_{-0.031}$	z_{drag}	1061.73	$1061.7^{+2.8}_{-2.8}$
A_{143}^{PS}	38	59^{+30}_{-30}	Ω_m	0.2941	$0.294^{+0.031}_{-0.029}$	r_{drag}	147.45	$147.4^{+1.2}_{-1.2}$
A_{217}^{PS}	99.6	104^{+30}_{-40}	σ_8	0.8318	$0.836^{+0.030}_{-0.028}$	k_D	0.13869	$0.1388^{+0.0016}_{-0.0016}$
A_{143}^{CIB}	8.10	—	z_{re}	11.59	$11.9^{+2.5}_{-2.4}$	$100\theta_D$	0.16300	$0.1629^{+0.0019}_{-0.0019}$
A_{217}^{CIB}	31.7	33^{+20}_{-20}	H_0	69.14	$69.2^{+2.6}_{-2.5}$	z_{eq}	3344	3344^{+110}_{-110}
A_{143}^{tSZ}	8.53	—	$10^9 A_s$	2.226	$2.25^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8260	$0.826^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.876	> 0.725	$\Omega_m h^2$	0.14060	$0.1406^{+0.0045}_{-0.0045}$	$r_{\text{drag}}/D_V(0.57)$	0.07263	$0.0727^{+0.0019}_{-0.0018}$

Best-fit $\chi_{\text{eff}}^2 = 10232.13$; R-1 = 0.00892

χ_{eff}^2 : CMB - lowLike: 2014.29 lowl: -8.88 CamSpec: 7797.92 SN - SNLS: 428.07

20.6 base_yhe_planck_lowl_lowLike_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02236	$0.02244^{+0.00071}_{-0.00069}$	$r_{143 \times 217}^{\text{CIB}}$	0.53	—	$\Omega_m h^3$	0.09675	$0.0971^{+0.0019}_{-0.0019}$
$\Omega_c h^2$	0.11822	$0.1185^{+0.0050}_{-0.0049}$	γ^{CIB}	0.518	$0.54^{+0.24}_{-0.26}$	Y_P	0.2790	$0.285^{+0.045}_{-0.047}$
$100\theta_{\text{MC}}$	1.04251	$1.0428^{+0.0021}_{-0.0021}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8408	$1.848^{+0.031}_{-0.030}$
τ	0.0948	$0.096^{+0.030}_{-0.029}$	c_{217}	0.99635	$0.9965^{+0.0027}_{-0.0027}$	Age/Gyr	13.743	$13.73^{+0.13}_{-0.14}$
Y_{He}	0.2790	$0.285^{+0.045}_{-0.047}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.20	$1091.4^{+1.7}_{-1.7}$
n_s	0.9731	$0.977^{+0.024}_{-0.024}$	A^{kSZ}	10.0	—	r_*	144.78	$144.6^{+1.1}_{-1.2}$
$\ln(10^{10} A_s)$	3.102	$3.109^{+0.061}_{-0.059}$	β_1^1	0.64	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04180	$1.0419^{+0.0013}_{-0.0013}$
A_{100}^{PS}	132	186^{+100}_{-100}	Ω_Λ	0.6991	$0.698^{+0.030}_{-0.033}$	z_{drag}	1060.92	$1061.4^{+2.9}_{-2.8}$
A_{143}^{PS}	38	59^{+30}_{-30}	Ω_m	0.3009	$0.302^{+0.033}_{-0.030}$	r_{drag}	147.47	$147.3^{+1.2}_{-1.2}$
A_{217}^{PS}	101.5	105^{+30}_{-40}	σ_8	0.8325	$0.837^{+0.030}_{-0.028}$	k_D	0.13906	$0.1391^{+0.0016}_{-0.0017}$
A_{143}^{CIB}	5.77	—	z_{re}	11.63	$11.7^{+2.5}_{-2.4}$	$100\theta_D$	0.16257	$0.1628^{+0.0019}_{-0.0019}$
A_{217}^{CIB}	30	32^{+20}_{-20}	H_0	68.51	$68.6^{+2.6}_{-2.5}$	z_{eq}	3359	3369^{+110}_{-110}
A_{143}^{tSZ}	9.37	—	$10^9 A_s$	2.225	$2.24^{+0.14}_{-0.13}$	$100\theta_{\text{eq}}$	0.8223	$0.821^{+0.022}_{-0.021}$
$r_{143 \times 217}^{\text{PS}}$	0.880	> 0.728	$\Omega_m h^2$	0.14122	$0.1416^{+0.0046}_{-0.0046}$	$r_{\text{drag}}/D_V(0.57)$	0.07224	$0.0722^{+0.0019}_{-0.0018}$

Best-fit $\chi_{\text{eff}}^2 = 9934.36$; R-1 = 0.00591

χ_{eff}^2 : CMB - lowLike: 2014.42 lowl: -8.29 CamSpec: 7797.23 SN - Union2.1: 130.18

20.7 base_yhe_planck_lowl_lowLike_highL

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02219	$0.02227^{+0.00070}_{-0.00070}$	β_1^1	0.48	$0.4^{+1.1}_{-1.1}$	σ_8	0.8351	$0.833^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1200	$0.1194^{+0.0053}_{-0.0052}$	$A_{148}^{\text{PS, ACT}}$	10.42	$10.5^{+1.2}_{-1.1}$	z_{re}	11.54	$11.5^{+2.4}_{-2.3}$
$100\theta_{\text{MC}}$	1.04172	$1.0420^{+0.0020}_{-0.0019}$	$A_{218}^{\text{PS, ACT}}$	76.6	77^{+9}_{-9}	H_0	67.47	$67.9^{+2.7}_{-2.6}$
τ	0.0940	$0.094^{+0.029}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.35	$7.49^{+2.9}_{-2.8}$	$10^9 A_s$	2.222	$2.22^{+0.13}_{-0.12}$
Y_{He}	0.2612	$0.266^{+0.040}_{-0.042}$	$A_{150}^{\text{PS, SPT}}$	9.90	$9.96^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14286	$0.1424^{+0.0050}_{-0.0048}$
n_s	0.9634	$0.967^{+0.024}_{-0.023}$	$A_{220}^{\text{PS, SPT}}$	73.6	74^{+9}_{-9}	$\Omega_m h^3$	0.09639	$0.0966^{+0.0018}_{-0.0018}$
$\ln(10^{10} A_s)$	3.101	$3.100^{+0.058}_{-0.053}$	$r_{95 \times 150}^{\text{PS}}$	0.799	> 0.684	Y_{P}	0.2612	$0.266^{+0.040}_{-0.042}$
A_{100}^{PS}	213	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.566	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8412	$1.841^{+0.030}_{-0.029}$
A_{143}^{PS}	76.1	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9194	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.791	$13.77^{+0.13}_{-0.13}$
A_{217}^{PS}	63.2	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.44^{+0.36}_{-0.39}$	z_*	1090.82	$1090.9^{+1.5}_{-1.4}$
A_{143}^{CIB}	3.04	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.847	$0.85^{+0.39}_{-0.39}$	r_*	144.50	$144.6^{+1.2}_{-1.2}$
A_{217}^{CIB}	50.3	49^{+10}_{-9}	y_{148}^{ACTs}	0.9901	$0.990^{+0.015}_{-0.015}$	$100\theta_*$	1.04151	$1.0416^{+0.0013}_{-0.0013}$
A_{143}^{tSZ}	3.60	< 4.95	y_{217}^{ACTs}	1.0021	$1.003^{+0.027}_{-0.026}$	z_{drag}	1060.05	$1060.4^{+2.6}_{-2.6}$
$r_{143 \times 217}^{\text{PS}}$	0.818	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9862	$0.986^{+0.015}_{-0.014}$	r_{drag}	147.24	$147.3^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.854	y_{217}^{ACTe}	0.9606	$0.962^{+0.021}_{-0.021}$	k_{D}	0.13992	$0.1397^{+0.0016}_{-0.0015}$
γ^{CIB}	0.635	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9799	$0.980^{+0.040}_{-0.038}$	$100\theta_{\text{D}}$	0.16183	$0.1620^{+0.0016}_{-0.0015}$
c_{100}	1.00058	$1.00058^{+0.00077}_{-0.00077}$	y_{150}^{SPT}	0.9824	$0.984^{+0.021}_{-0.020}$	z_{eq}	3398	3386^{+120}_{-120}
c_{217}	0.99742	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0162	$1.021^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8141	$0.817^{+0.023}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.12	—	Ω_{Λ}	0.6862	$0.690^{+0.032}_{-0.036}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07150	$0.0718^{+0.0019}_{-0.0019}$
A^{kSZ}	3.81	$5.70^{+4.1}_{-4.2}$	Ω_{m}	0.3138	$0.310^{+0.036}_{-0.032}$			

Best-fit $\chi_{\text{eff}}^2 = 10508.29$; R-1 = 0.00720

χ_{eff}^2 : CMB - lowLike: 2014.53 lowl: -6.86 CamSpec: 7806.94 highL: 693.50

20.8 base_yhe_planck_lowl_lowLike_highL_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02230	$0.02237^{+0.00071}_{-0.00068}$	β_1^1	0.39	$0.4^{+1.1}_{-1.1}$	σ_8	0.8300	$0.829^{+0.024}_{-0.023}$
$\Omega_c h^2$	0.11834	$0.1183^{+0.0044}_{-0.0045}$	$A_{148}^{\text{PS, ACT}}$	10.39	$10.6^{+1.1}_{-1.2}$	z_{re}	11.57	$11.4^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04171	$1.0421^{+0.0020}_{-0.0019}$	$A_{218}^{\text{PS, ACT}}$	76.2	77^{+9}_{-9}	H_0	68.16	$68.4^{+2.5}_{-2.3}$
τ	0.0957	$0.093^{+0.029}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.50	$7.71^{+3.0}_{-2.8}$	$10^9 A_s$	2.219	$2.21^{+0.12}_{-0.12}$
Y_{He}	0.2576	$0.265^{+0.040}_{-0.042}$	$A_{150}^{\text{PS, SPT}}$	9.90	$10.1^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14129	$0.1413^{+0.0041}_{-0.0041}$
n_s	0.9666	$0.969^{+0.024}_{-0.022}$	$A_{220}^{\text{PS, SPT}}$	73.2	74^{+9}_{-9}	$\Omega_m h^3$	0.09630	$0.0966^{+0.0018}_{-0.0017}$
$\ln(10^{10} A_s)$	3.100	$3.097^{+0.056}_{-0.051}$	$r_{95 \times 150}^{\text{PS}}$	0.798	> 0.682	Y_{P}	0.2576	$0.265^{+0.040}_{-0.042}$
A_{100}^{PS}	201	220^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.545	$0.59^{+0.23}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8328	$1.836^{+0.027}_{-0.026}$
A_{143}^{PS}	74.0	76^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9086	$0.935^{+0.047}_{-0.044}$	Age/Gyr	13.773	$13.75^{+0.13}_{-0.13}$
A_{217}^{PS}	61.6	62^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.440	$0.43^{+0.36}_{-0.40}$	z_*	1090.37	$1090.6^{+1.4}_{-1.4}$
A_{143}^{CIB}	3.22	$3.25^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.830	$0.85^{+0.38}_{-0.38}$	r_*	144.87	$144.8^{+1.0}_{-1.0}$
A_{217}^{CIB}	52.3	50^{+10}_{-9}	y_{148}^{ACTs}	0.9912	$0.991^{+0.014}_{-0.014}$	$100\theta_*$	1.04159	$1.0417^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	4.58	< 4.84	y_{217}^{ACTs}	1.0023	$1.004^{+0.027}_{-0.026}$	z_{drag}	1060.09	$1060.5^{+2.7}_{-2.6}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9871	$0.987^{+0.015}_{-0.014}$	r_{drag}	147.57	$147.5^{+1.1}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9609	$0.963^{+0.021}_{-0.021}$	k_{D}	0.13981	$0.1396^{+0.0014}_{-0.0015}$
γ^{CIB}	0.656	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9825	$0.982^{+0.041}_{-0.038}$	$100\theta_{\text{D}}$	0.16156	$0.1619^{+0.0016}_{-0.0015}$
c_{100}	1.00060	$1.00059^{+0.00081}_{-0.00080}$	y_{150}^{SPT}	0.9841	$0.986^{+0.021}_{-0.020}$	z_{eq}	3361	3362^{+98}_{-99}
c_{217}	0.99737	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0169	$1.023^{+0.048}_{-0.045}$	$100\theta_{\text{eq}}$	0.8212	$0.822^{+0.020}_{-0.020}$
$\xi^{\text{tSZ-CIB}}$	0.00	—	Ω_{Λ}	0.6958	$0.697^{+0.029}_{-0.029}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07203	$0.0721^{+0.0018}_{-0.0016}$
A^{kSZ}	1.30	$5.07^{+3.6}_{-4.3}$	Ω_{m}	0.3042	$0.303^{+0.029}_{-0.029}$			

Best-fit $\chi_{\text{eff}}^2 = 10516.97$; R-1 = 0.02289

χ_{eff}^2 : CMB - lowLike: 2014.53 lensing: 9.63 lowl: -7.43 CamSpec: 7807.97 highL: 692.15

20.9 base_yhe_planck_lowl_lowLike_highL_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02227	$0.02232^{+0.00059}_{-0.00059}$	β_1^1	0.45	$0.4^{+1.1}_{-1.1}$	σ_8	0.8314	$0.832^{+0.028}_{-0.026}$
$\Omega_c h^2$	0.11889	$0.1188^{+0.0034}_{-0.0034}$	$A_{148}^{\text{PS, ACT}}$	10.21	$10.5^{+1.2}_{-1.1}$	z_{re}	11.53	$11.5^{+2.3}_{-2.2}$
$100\theta_{\text{MC}}$	1.04190	$1.0421^{+0.0017}_{-0.0017}$	$A_{218}^{\text{PS, ACT}}$	75.8	$76.6^{+8.4}_{-9.0}$	H_0	68.00	$68.1^{+1.7}_{-1.7}$
τ	0.0946	$0.095^{+0.027}_{-0.025}$	$A_{95}^{\text{PS, SPT}}$	7.18	$7.50^{+3.0}_{-2.8}$	$10^9 A_s$	2.219	$2.22^{+0.13}_{-0.12}$
Y_{He}	0.2615	$0.267^{+0.038}_{-0.040}$	$A_{150}^{\text{PS, SPT}}$	9.65	$9.95^{+1.0}_{-1.0}$	$\Omega_m h^2$	0.14180	$0.1418^{+0.0033}_{-0.0033}$
n_s	0.9666	$0.969^{+0.019}_{-0.019}$	$A_{220}^{\text{PS, SPT}}$	72.5	74^{+9}_{-9}	$\Omega_m h^3$	0.09642	$0.0966^{+0.0017}_{-0.0017}$
$\ln(10^{10} A_s)$	3.100	$3.101^{+0.056}_{-0.053}$	$r_{95 \times 150}^{\text{PS}}$	0.802	> 0.683	Y_{P}	0.2615	$0.267^{+0.038}_{-0.040}$
A_{100}^{PS}	204	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.559	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8365	$1.839^{+0.028}_{-0.027}$
A_{143}^{PS}	74.9	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9125	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.773	$13.76^{+0.10}_{-0.10}$
A_{217}^{PS}	62.9	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.434	$0.44^{+0.36}_{-0.39}$	z_*	1090.62	$1090.8^{+1.4}_{-1.4}$
A_{143}^{CIB}	3.29	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.837	$0.85^{+0.39}_{-0.38}$	r_*	144.74	$144.69^{+0.94}_{-0.94}$
A_{217}^{CIB}	52.3	49^{+10}_{-9}	y_{148}^{ACTs}	0.9905	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04167	$1.0417^{+0.0011}_{-0.0011}$
A_{143}^{tSZ}	4.75	< 4.91	y_{217}^{ACTs}	1.0011	$1.003^{+0.027}_{-0.026}$	z_{drag}	1060.16	$1060.5^{+2.4}_{-2.4}$
$r_{143 \times 217}^{\text{PS}}$	0.827	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9859	$0.986^{+0.015}_{-0.014}$	r_{drag}	147.45	$147.4^{+1.0}_{-1.0}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.854	y_{217}^{ACTe}	0.9590	$0.962^{+0.021}_{-0.020}$	k_{D}	0.13975	$0.1396^{+0.0013}_{-0.0013}$
γ^{CIB}	0.653	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9807	$0.980^{+0.040}_{-0.038}$	$100\theta_{\text{D}}$	0.16179	$0.1620^{+0.0016}_{-0.0015}$
c_{100}	1.00058	$1.00058^{+0.00078}_{-0.00079}$	y_{150}^{SPT}	0.9822	$0.984^{+0.021}_{-0.020}$	z_{eq}	3373	3373^{+79}_{-78}
c_{217}	0.99738	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0141	$1.021^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8190	$0.819^{+0.015}_{-0.015}$
$\xi^{\text{tSZ-CIB}}$	0.01	—	Ω_{Λ}	0.6933	$0.694^{+0.020}_{-0.021}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07190	$0.0720^{+0.0012}_{-0.0012}$
A^{kSZ}	1.78	$5.73^{+4.1}_{-4.2}$	Ω_{m}	0.3067	$0.306^{+0.021}_{-0.020}$			

Best-fit $\chi_{\text{eff}}^2 = 10509.93$; R-1 = 0.01144

χ_{eff}^2 : BAO - DR7: 0.96 DR9: 0.37 6DF: 0.03 CMB - lowLike: 2014.47 lowl: -7.46 CamSpec: 7807.14 highL: 694.30

20.10 base_yhe_planck_lowl_lowLike_highL_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02251	$0.02257^{+0.00068}_{-0.00066}$	β_1^1	0.44	$0.4^{+1.1}_{-1.1}$	σ_8	0.8268	$0.831^{+0.029}_{-0.028}$
$\Omega_c h^2$	0.11704	$0.1168^{+0.0047}_{-0.0046}$	$A_{148}^{\text{PS, ACT}}$	10.47	$10.5^{+1.1}_{-1.2}$	z_{re}	11.52	$11.9^{+2.3}_{-2.4}$
$100\theta_{\text{MC}}$	1.04259	$1.0428^{+0.0019}_{-0.0018}$	$A_{218}^{\text{PS, ACT}}$	76.7	$76.6^{+8.3}_{-9.0}$	H_0	69.09	$69.3^{+2.4}_{-2.3}$
τ	0.0949	$0.100^{+0.029}_{-0.028}$	$A_{95}^{\text{PS, SPT}}$	7.22	$7.47^{+2.9}_{-2.7}$	$10^9 A_s$	2.218	$2.24^{+0.13}_{-0.13}$
Y_{He}	0.2736	$0.277^{+0.038}_{-0.040}$	$A_{150}^{\text{PS, SPT}}$	9.90	$9.93^{+0.98}_{-0.99}$	$\Omega_m h^2$	0.14020	$0.1401^{+0.0044}_{-0.0043}$
n_s	0.9749	$0.977^{+0.023}_{-0.022}$	$A_{220}^{\text{PS, SPT}}$	73.7	74^{+9}_{-9}	$\Omega_m h^3$	0.09687	$0.0970^{+0.0018}_{-0.0017}$
$\ln(10^{10} A_s)$	3.099	$3.110^{+0.059}_{-0.057}$	$r_{95 \times 150}^{\text{PS}}$	0.814	> 0.684	Y_P	0.2736	$0.277^{+0.038}_{-0.040}$
A_{100}^{PS}	215	220^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.589	$0.60^{+0.24}_{-0.24}$	$10^9 A_s e^{-2\tau}$	1.8345	$1.835^{+0.029}_{-0.029}$
A_{143}^{PS}	77.6	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9217	$0.939^{+0.046}_{-0.044}$	Age/Gyr	13.720	$13.71^{+0.12}_{-0.12}$
A_{217}^{PS}	64.1	64^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.433	$0.43^{+0.36}_{-0.40}$	z_*	1090.65	$1090.7^{+1.5}_{-1.4}$
A_{143}^{CIB}	3.11	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.846	$0.85^{+0.38}_{-0.38}$	r_*	144.99	$145.0^{+1.1}_{-1.1}$
A_{217}^{CIB}	49.9	49^{+10}_{-9}	y_{148}^{ACTs}	0.9896	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04202	$1.0421^{+0.0012}_{-0.0012}$
A_{143}^{tSZ}	3.39	< 4.84	y_{217}^{ACTs}	1.0018	$1.003^{+0.027}_{-0.025}$	z_{drag}	1061.00	$1061.2^{+2.5}_{-2.5}$
$r_{143 \times 217}^{\text{PS}}$	0.822	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9857	$0.986^{+0.015}_{-0.015}$	r_{drag}	147.63	$147.6^{+1.2}_{-1.1}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9603	$0.961^{+0.020}_{-0.020}$	k_D	0.13925	$0.1392^{+0.0015}_{-0.0015}$
γ^{CIB}	0.627	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9777	$0.980^{+0.041}_{-0.038}$	$100\theta_D$	0.16214	$0.1623^{+0.0016}_{-0.0015}$
c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00077}$	y_{150}^{SPT}	0.9814	$0.983^{+0.020}_{-0.020}$	z_{eq}	3335	3331^{+110}_{-100}
c_{217}	0.99743	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0164	$1.021^{+0.047}_{-0.044}$	$100\theta_{\text{eq}}$	0.8273	$0.828^{+0.021}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.17	—	Ω_Λ	0.7063	$0.708^{+0.026}_{-0.029}$	$r_{\text{drag}}/D_V(0.57)$	0.07266	$0.0728^{+0.0017}_{-0.0017}$
A^{kSZ}	4.37	$5.87^{+4.1}_{-4.0}$	Ω_m	0.2937	$0.292^{+0.029}_{-0.026}$			

Best-fit $\chi_{\text{eff}}^2 = 10512.92$; R-1 = 0.01787

χ_{eff}^2 : CMB - lowLike: 2014.31 lowl: -8.51 CamSpec: 7808.51 highL: 694.54 Hubble - HST: 3.86

20.11 base_yhe_planck_lowl_lowLike_highL_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02235	$0.02244^{+0.00068}_{-0.00067}$	β_1^1	0.43	$0.4^{+1.1}_{-1.1}$	σ_8	0.8295	$0.831^{+0.029}_{-0.027}$
$\Omega_c h^2$	0.11813	$0.1177^{+0.0048}_{-0.0048}$	$A_{148}^{\text{PS, ACT}}$	10.27	$10.5^{+1.2}_{-1.1}$	z_{re}	11.57	$11.7^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04207	$1.0424^{+0.0020}_{-0.0019}$	$A_{218}^{\text{PS, ACT}}$	76.2	$76.6^{+8.3}_{-9.0}$	H_0	68.39	$68.8^{+2.5}_{-2.4}$
τ	0.0954	$0.098^{+0.029}_{-0.027}$	$A_{95}^{\text{PS, SPT}}$	7.30	$7.49^{+3.0}_{-2.7}$	$10^9 A_s$	2.220	$2.23^{+0.14}_{-0.12}$
Y_{He}	0.2643	$0.271^{+0.039}_{-0.041}$	$A_{150}^{\text{PS, SPT}}$	9.74	$9.95^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14112	$0.1408^{+0.0046}_{-0.0045}$
n_s	0.9691	$0.973^{+0.023}_{-0.023}$	$A_{220}^{\text{PS, SPT}}$	73.0	74^{+9}_{-9}	$\Omega_m h^3$	0.09651	$0.0968^{+0.0018}_{-0.0017}$
$\ln(10^{10} A_s)$	3.100	$3.105^{+0.060}_{-0.056}$	$r_{95 \times 150}^{\text{PS}}$	0.789	> 0.683	Y_{P}	0.2643	$0.271^{+0.039}_{-0.041}$
A_{100}^{PS}	208	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.544	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8346	$1.836^{+0.029}_{-0.028}$
A_{143}^{PS}	75.5	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9139	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.757	$13.73^{+0.13}_{-0.13}$
A_{217}^{PS}	63.0	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.423	$0.44^{+0.36}_{-0.40}$	z_*	1090.57	$1090.7^{+1.5}_{-1.4}$
A_{143}^{CIB}	3.10	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.847	$0.85^{+0.39}_{-0.38}$	r_*	144.87	$144.9^{+1.1}_{-1.1}$
A_{217}^{CIB}	51.4	49^{+10}_{-9}	y_{148}^{ACTs}	0.9901	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04177	$1.0419^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	4.19	< 4.89	y_{217}^{ACTs}	1.0018	$1.003^{+0.027}_{-0.026}$	z_{drag}	1060.39	$1060.8^{+2.6}_{-2.6}$
$r_{143 \times 217}^{\text{PS}}$	0.823	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9859	$0.986^{+0.015}_{-0.015}$	r_{drag}	147.56	$147.5^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9601	$0.962^{+0.020}_{-0.021}$	k_{D}	0.13958	$0.1394^{+0.0015}_{-0.0015}$
γ^{CIB}	0.646	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9800	$0.980^{+0.040}_{-0.038}$	$100\theta_{\text{D}}$	0.16185	$0.1621^{+0.0016}_{-0.0015}$
c_{100}	1.00059	$1.00059^{+0.00078}_{-0.00078}$	y_{150}^{SPT}	0.9816	$0.984^{+0.021}_{-0.020}$	z_{eq}	3357	3349^{+110}_{-110}
c_{217}	0.99740	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0138	$1.021^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8224	$0.825^{+0.021}_{-0.021}$
$\xi^{\text{tSZ-CIB}}$	0.03	—	Ω_{Λ}	0.6983	$0.702^{+0.029}_{-0.031}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07218	$0.0724^{+0.0018}_{-0.0017}$
A^{kSZ}	2.71	$5.79^{+4.1}_{-4.1}$	Ω_{m}	0.3017	$0.298^{+0.031}_{-0.029}$			

Best-fit $\chi_{\text{eff}}^2 = 10937.26$; R-1 = 0.01093

χ_{eff}^2 : CMB - lowLike: 2014.46 lowl: -7.82 CamSpec: 7807.66 highL: 694.14 SN - SNLS: 428.68

20.12 base_yhe_planck_lowl_lowLike_highL_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02223	$0.02233^{+0.00068}_{-0.00068}$	β_1^1	0.39	$0.4^{+1.1}_{-1.1}$	σ_8	0.8335	$0.833^{+0.028}_{-0.027}$
$\Omega_c h^2$	0.1193	$0.1189^{+0.0051}_{-0.0049}$	$A_{148}^{\text{PS, ACT}}$	10.63	$10.5^{+1.2}_{-1.1}$	z_{re}	11.61	$11.6^{+2.3}_{-2.3}$
$100\theta_{\text{MC}}$	1.04190	$1.0421^{+0.0020}_{-0.0019}$	$A_{218}^{\text{PS, ACT}}$	77.2	$76.6^{+8.4}_{-9.1}$	H_0	67.82	$68.2^{+2.5}_{-2.5}$
τ	0.0951	$0.095^{+0.029}_{-0.026}$	$A_{95}^{\text{PS, SPT}}$	7.29	$7.50^{+3.0}_{-2.8}$	$10^9 A_s$	2.224	$2.22^{+0.13}_{-0.13}$
Y_{He}	0.2640	$0.268^{+0.040}_{-0.041}$	$A_{150}^{\text{PS, SPT}}$	10.08	$9.95^{+1.0}_{-0.99}$	$\Omega_m h^2$	0.14218	$0.1418^{+0.0048}_{-0.0046}$
n_s	0.9654	$0.969^{+0.024}_{-0.023}$	$A_{220}^{\text{PS, SPT}}$	74.5	74^{+9}_{-9}	$\Omega_m h^3$	0.09643	$0.0966^{+0.0018}_{-0.0017}$
$\ln(10^{10} A_s)$	3.102	$3.102^{+0.058}_{-0.054}$	$r_{95 \times 150}^{\text{PS}}$	0.820	> 0.683	Y_{P}	0.2640	$0.268^{+0.040}_{-0.041}$
A_{100}^{PS}	215	219^{+100}_{-100}	$r_{95 \times 220}^{\text{PS}}$	0.604	$0.59^{+0.24}_{-0.23}$	$10^9 A_s e^{-2\tau}$	1.8386	$1.839^{+0.029}_{-0.029}$
A_{143}^{PS}	76.8	77^{+20}_{-20}	$r_{150 \times 220}^{\text{PS}}$	0.9267	$0.938^{+0.047}_{-0.045}$	Age/Gyr	13.778	$13.76^{+0.13}_{-0.13}$
A_{217}^{PS}	63.0	63^{+20}_{-20}	$A_{\text{dust}}^{\text{ACTs}}$	0.428	$0.44^{+0.36}_{-0.39}$	z_*	1090.80	$1090.8^{+1.5}_{-1.4}$
A_{143}^{CIB}	3.03	$3.24^{+1.6}_{-1.5}$	$A_{\text{dust}}^{\text{ACTe}}$	0.849	$0.85^{+0.39}_{-0.39}$	r_*	144.65	$144.7^{+1.1}_{-1.1}$
A_{217}^{CIB}	49.0	49^{+10}_{-9}	y_{148}^{ACTs}	0.9898	$0.990^{+0.015}_{-0.014}$	$100\theta_*$	1.04162	$1.0417^{+0.0013}_{-0.0012}$
A_{143}^{tSZ}	2.76	< 4.93	y_{217}^{ACTs}	1.0034	$1.003^{+0.027}_{-0.026}$	z_{drag}	1060.20	$1060.5^{+2.6}_{-2.6}$
$r_{143 \times 217}^{\text{PS}}$	0.820	$0.83^{+0.14}_{-0.13}$	y_{148}^{ACTe}	0.9863	$0.986^{+0.015}_{-0.014}$	r_{drag}	147.37	$147.4^{+1.2}_{-1.2}$
$r_{143 \times 217}^{\text{CIB}}$	1.000	> 0.853	y_{217}^{ACTe}	0.9621	$0.962^{+0.021}_{-0.020}$	k_{D}	0.13970	$0.1396^{+0.0015}_{-0.0015}$
γ^{CIB}	0.616	$0.63^{+0.16}_{-0.16}$	y_{95}^{SPT}	0.9779	$0.980^{+0.040}_{-0.038}$	$100\theta_{\text{D}}$	0.16194	$0.1620^{+0.0016}_{-0.0015}$
c_{100}	1.00060	$1.00058^{+0.00078}_{-0.00079}$	y_{150}^{SPT}	0.9830	$0.984^{+0.021}_{-0.020}$	z_{eq}	3382	3374^{+110}_{-110}
c_{217}	0.99743	$0.9974^{+0.0026}_{-0.0026}$	y_{220}^{SPT}	1.0194	$1.021^{+0.048}_{-0.044}$	$100\theta_{\text{eq}}$	0.8173	$0.819^{+0.022}_{-0.022}$
$\xi^{\text{tSZ-CIB}}$	0.28	—	Ω_{Λ}	0.6909	$0.694^{+0.030}_{-0.033}$	$r_{\text{drag}}/D_{\text{V}}(0.57)$	0.07176	$0.0720^{+0.0018}_{-0.0018}$
A^{kSZ}	5.48	$5.73^{+4.1}_{-4.2}$	Ω_{m}	0.3091	$0.306^{+0.033}_{-0.030}$			

Best-fit $\chi_{\text{eff}}^2 = 10638.70$; R-1 = 0.00861

χ_{eff}^2 : CMB - lowLike: 2014.55 lowl: -7.20 CamSpec: 7807.42 highL: 693.29 SN - Union2.1: 130.38

20.13 base_yhe_planck_lowl

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02235	$0.0234^{+0.0016}_{-0.0015}$	$r_{143 \times 217}^{\text{CIB}}$	0.65	—	$\Omega_m h^3$	0.09699	$0.0990^{+0.0032}_{-0.0030}$
$\Omega_c h^2$	0.1194	$0.1127^{+0.0092}_{-0.0087}$	γ^{CIB}	0.508	$0.54^{+0.24}_{-0.26}$	Y_P	0.283	$0.330^{+0.073}_{-0.071}$
$100\theta_{\text{MC}}$	1.04256	$1.0452^{+0.0040}_{-0.0037}$	c_{100}	1.00058	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8498	$1.844^{+0.031}_{-0.030}$
τ	0.091	$0.20^{+0.13}_{-0.13}$	c_{217}	0.99648	$0.9965^{+0.0027}_{-0.0026}$	Age/Gyr	13.747	$13.53^{+0.28}_{-0.31}$
Y_{He}	0.283	$0.330^{+0.073}_{-0.071}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.47	$1091.7^{+1.8}_{-1.7}$
n_s	0.974	$1.019^{+0.064}_{-0.059}$	A^{kSZ}	1.56	—	r_*	144.45	$145.2^{+1.4}_{-1.4}$
$\ln(10^{10} A_s)$	3.100	$3.32^{+0.25}_{-0.26}$	β_1^1	0.65	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04173	$1.0430^{+0.0020}_{-0.0019}$
A_{100}^{PS}	160	178^{+100}_{-100}	Ω_Λ	0.693	$0.737^{+0.056}_{-0.057}$	z_{drag}	1061.2	$1064.9^{+5.7}_{-5.3}$
A_{143}^{PS}	45	61^{+30}_{-30}	Ω_m	0.307	$0.263^{+0.058}_{-0.056}$	r_{drag}	147.14	$147.6^{+1.3}_{-1.3}$
A_{217}^{PS}	106.3	108^{+40}_{-40}	σ_8	0.836	$0.920^{+0.098}_{-0.10}$	k_D	0.13925	$0.1375^{+0.0026}_{-0.0027}$
A_{143}^{CIB}	10.5	—	z_{re}	11.4	$19.4^{+8.4}_{-9.0}$	$100\theta_D$	0.16270	$0.1642^{+0.0028}_{-0.0026}$
A_{217}^{CIB}	34.8	32^{+20}_{-20}	H_0	68.1	$72.4^{+6.0}_{-5.5}$	z_{eq}	3388	3254^{+190}_{-180}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.22	$2.79^{+0.72}_{-0.66}$	$100\theta_{\text{eq}}$	0.8170	$0.848^{+0.043}_{-0.042}$
$r_{143 \times 217}^{\text{PS}}$	0.868	> 0.735	$\Omega_m h^2$	0.1424	$0.1368^{+0.0080}_{-0.0075}$	$r_{\text{drag}}/D_V(0.57)$	0.07186	$0.0748^{+0.0041}_{-0.0038}$

Best-fit $\chi_{\text{eff}}^2 = 7789.73$; R-1 = 0.00643

χ_{eff}^2 : CMB - lowl: -8.41 CamSpec: 7797.21

20.14 base_yhe_planck_lowl_post_lensing

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02232	$0.0230^{+0.0013}_{-0.0012}$	$r_{143 \times 217}^{\text{CIB}}$	0.51	—	$\Omega_m h^3$	0.09635	$0.0978^{+0.0026}_{-0.0025}$
$\Omega_c h^2$	0.1183	$0.1144^{+0.0081}_{-0.0088}$	γ^{CIB}	0.555	$0.53^{+0.25}_{-0.26}$	Y_P	0.258	$0.300^{+0.066}_{-0.060}$
$100\theta_{\text{MC}}$	1.04180	$1.0438^{+0.0034}_{-0.0032}$	c_{100}	1.00059	$1.00059^{+0.00077}_{-0.00077}$	$10^9 A_s e^{-2\tau}$	1.8379	$1.837^{+0.032}_{-0.031}$
τ	0.093	$0.139^{+0.10}_{-0.096}$	c_{217}	0.99640	$0.9965^{+0.0026}_{-0.0026}$	Age/Gyr	13.769	$13.62^{+0.24}_{-0.26}$
Y_{He}	0.258	$0.300^{+0.066}_{-0.060}$	$\xi^{\text{tSZ-CIB}}$	0.17	—	z_*	1090.36	$1091.0^{+1.7}_{-1.7}$
n_s	0.9710	$0.996^{+0.050}_{-0.045}$	A^{kSZ}	1.20	—	r_*	144.87	$145.2^{+1.4}_{-1.4}$
$\ln(10^{10} A_s)$	3.097	$3.19^{+0.19}_{-0.18}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04165	$1.0425^{+0.0018}_{-0.0018}$
A_{100}^{PS}	155	180^{+100}_{-100}	Ω_Λ	0.697	$0.724^{+0.052}_{-0.054}$	z_{drag}	1060.12	$1062.8^{+4.6}_{-4.3}$
A_{143}^{PS}	65.3	56^{+30}_{-30}	Ω_m	0.303	$0.276^{+0.054}_{-0.052}$	r_{drag}	147.57	$147.8^{+1.3}_{-1.3}$
A_{217}^{PS}	119.7	102^{+40}_{-40}	σ_8	0.830	$0.860^{+0.065}_{-0.063}$	k_D	0.13980	$0.1383^{+0.0024}_{-0.0025}$
A_{143}^{CIB}	0.0	—	z_{re}	11.3	$14.8^{+6.8}_{-7.4}$	$100\theta_D$	0.16157	$0.1631^{+0.0024}_{-0.0022}$
A_{217}^{CIB}	25	33^{+20}_{-20}	H_0	68.2	$70.9^{+5.3}_{-4.9}$	z_{eq}	3359	3282^{+170}_{-180}
A_{143}^{tSZ}	5.87	—	$10^9 A_s$	2.213	$2.44^{+0.48}_{-0.44}$	$100\theta_{\text{eq}}$	0.8216	$0.840^{+0.041}_{-0.039}$
$r_{143 \times 217}^{\text{PS}}$	0.912	> 0.697	$\Omega_m h^2$	0.1412	$0.1380^{+0.0073}_{-0.0077}$	$r_{\text{drag}}/D_V(0.57)$	0.07208	$0.0739^{+0.0038}_{-0.0035}$

Best-fit $\chi_{\text{eff}}^2 = 7800.86$; R-1 = 0.02142

χ_{eff}^2 : CMB - lensing: 9.82 lowl: -8.13 CamSpec: 7798.65

20.15 base_yhe_planck_lowl_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02231	$0.02261^{+0.00072}_{-0.00070}$	$r_{143 \times 217}^{\text{CIB}}$	0.58	—	$\Omega_m h^3$	0.09664	$0.0975^{+0.0020}_{-0.0020}$
$\Omega_c h^2$	0.11842	$0.1181^{+0.0038}_{-0.0036}$	γ^{CIB}	0.513	$0.54^{+0.24}_{-0.25}$	Y_P	0.2758	$0.293^{+0.046}_{-0.048}$
$100\theta_{\text{MC}}$	1.04236	$1.0431^{+0.0021}_{-0.0020}$	c_{100}	1.00059	$1.00057^{+0.00075}_{-0.00076}$	$10^9 A_s e^{-2\tau}$	1.8398	$1.850^{+0.030}_{-0.029}$
τ	0.095	$0.133^{+0.071}_{-0.082}$	c_{217}	0.99635	$0.9965^{+0.0028}_{-0.0026}$	Age/Gyr	13.753	$13.70^{+0.13}_{-0.13}$
Y_{He}	0.2758	$0.293^{+0.046}_{-0.048}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.13	$1091.5^{+1.7}_{-1.7}$
n_s	0.9718	$0.985^{+0.027}_{-0.025}$	A^{kSZ}	8.16	—	r_*	144.77	$144.56^{+0.95}_{-0.97}$
$\ln(10^{10} A_s)$	3.103	$3.18^{+0.14}_{-0.16}$	β_1^1	0.62	$0.6^{+1.1}_{-1.1}$	$100\theta_*$	1.04174	$1.0420^{+0.0012}_{-0.0012}$
A_{100}^{PS}	132	182^{+100}_{-100}	Ω_Λ	0.6974	$0.703^{+0.023}_{-0.024}$	z_{drag}	1060.73	$1062.0^{+3.0}_{-3.0}$
A_{143}^{PS}	38	60^{+30}_{-30}	Ω_m	0.3026	$0.297^{+0.024}_{-0.023}$	r_{drag}	147.48	$147.2^{+1.1}_{-1.1}$
A_{217}^{PS}	102.3	107^{+40}_{-40}	σ_8	0.833	$0.871^{+0.066}_{-0.068}$	k_D	0.13916	$0.1389^{+0.0015}_{-0.0015}$
A_{143}^{CIB}	6.34	—	z_{re}	11.7	$14.6^{+6.0}_{-6.6}$	$100\theta_D$	0.16245	$0.1630^{+0.0019}_{-0.0019}$
A_{217}^{CIB}	30.6	32^{+20}_{-20}	H_0	68.36	$69.0^{+2.1}_{-2.0}$	z_{eq}	3363	3363^{+86}_{-81}
A_{143}^{tSZ}	9.99	—	$10^9 A_s$	2.227	$2.42^{+0.37}_{-0.37}$	$100\theta_{\text{eq}}$	0.8214	$0.823^{+0.016}_{-0.016}$
$r_{143 \times 217}^{\text{PS}}$	0.881	> 0.734	$\Omega_m h^2$	0.14138	$0.1414^{+0.0036}_{-0.0034}$	$r_{\text{drag}}/D_V(0.57)$	0.07214	$0.0724^{+0.0014}_{-0.0014}$

Best-fit $\chi^2_{\text{eff}} = 7791.14$; R-1 = 0.01434

χ^2_{eff} : BAO - DR7: 0.56 6DF: 0.06 DR9: 0.66 CMB - lowl: -8.14 CamSpec: 7797.12

20.16 base_yhe_planck_lowl_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02269	$0.0237^{+0.0011}_{-0.0011}$	$r_{143 \times 217}^{\text{CIB}}$	0.66	—	$\Omega_m h^3$	0.09762	$0.0994^{+0.0025}_{-0.0024}$
$\Omega_c h^2$	0.1165	$0.1113^{+0.0062}_{-0.0059}$	γ^{CIB}	0.515	$0.54^{+0.24}_{-0.26}$	Y_P	0.304	$0.340^{+0.055}_{-0.058}$
$100\theta_{\text{MC}}$	1.04369	$1.0458^{+0.0029}_{-0.0028}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8440	$1.842^{+0.030}_{-0.030}$
τ	0.095	$0.222^{+0.091}_{-0.095}$	c_{217}	0.99643	$0.9965^{+0.0027}_{-0.0026}$	Age/Gyr	13.667	$13.48^{+0.20}_{-0.21}$
Y_{He}	0.304	$0.340^{+0.055}_{-0.058}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.70	$1091.7^{+1.8}_{-1.8}$
n_s	0.9851	$1.027^{+0.044}_{-0.042}$	A^{kSZ}	10.0	—	r_*	144.87	$145.4^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.105	$3.36^{+0.17}_{-0.19}$	β_1^1	0.58	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04226	$1.0432^{+0.0015}_{-0.0015}$
A_{100}^{PS}	156	177^{+100}_{-100}	Ω_Λ	0.7129	$0.747^{+0.036}_{-0.037}$	z_{drag}	1062.45	$1065.6^{+4.1}_{-4.0}$
A_{143}^{PS}	29	62^{+30}_{-30}	Ω_m	0.2871	$0.253^{+0.037}_{-0.036}$	r_{drag}	147.47	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	91.0	108^{+40}_{-40}	σ_8	0.831	$0.933^{+0.077}_{-0.080}$	k_D	0.13826	$0.1371^{+0.0020}_{-0.0020}$
A_{143}^{CIB}	13.0	—	z_{re}	11.7	21^{+6}_{-6}	$100\theta_D$	0.16347	$0.1644^{+0.0023}_{-0.0023}$
A_{217}^{CIB}	36.8	32^{+20}_{-20}	H_0	69.80	$73.3^{+3.8}_{-3.8}$	z_{eq}	3327	3225^{+130}_{-120}
A_{143}^{tSZ}	10.0	—	$10^9 A_s$	2.23	$2.88^{+0.52}_{-0.51}$	$100\theta_{\text{eq}}$	0.8301	$0.854^{+0.029}_{-0.029}$
$r_{143 \times 217}^{\text{PS}}$	0.874	> 0.736	$\Omega_m h^2$	0.1399	$0.1356^{+0.0054}_{-0.0052}$	$r_{\text{drag}}/D_V(0.57)$	0.07307	$0.0755^{+0.0027}_{-0.0027}$

Best-fit $\chi_{\text{eff}}^2 = 7792.97$; R-1 = 0.00733

χ_{eff}^2 : CMB - lowl: -9.07 CamSpec: 7798.36 Hubble - HST: 2.81

20.17 base_yhe_planck_lowl_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02252	$0.0238^{+0.0014}_{-0.0013}$	$r_{143 \times 217}^{\text{CIB}}$	0.56	—	$\Omega_m h^3$	0.09715	$0.0995^{+0.0029}_{-0.0028}$
$\Omega_c h^2$	0.1175	$0.1107^{+0.0076}_{-0.0071}$	γ^{CIB}	0.525	$0.54^{+0.24}_{-0.26}$	Y_P	0.288	$0.343^{+0.064}_{-0.067}$
$100\theta_{\text{MC}}$	1.04299	$1.0460^{+0.0034}_{-0.0034}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00079}$	$10^9 A_s e^{-2\tau}$	1.8439	$1.841^{+0.030}_{-0.029}$
τ	0.095	$0.23^{+0.11}_{-0.11}$	c_{217}	0.99646	$0.9965^{+0.0027}_{-0.0026}$	Age/Gyr	13.710	$13.46^{+0.25}_{-0.26}$
Y_{He}	0.288	$0.343^{+0.064}_{-0.067}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.33	$1091.7^{+1.8}_{-1.8}$
n_s	0.980	$1.032^{+0.054}_{-0.051}$	A^{kSZ}	7.10	—	r_*	144.81	$145.4^{+1.2}_{-1.2}$
$\ln(10^{10} A_s)$	3.104	$3.37^{+0.22}_{-0.22}$	β_1^1	0.68	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04200	$1.0433^{+0.0017}_{-0.0017}$
A_{100}^{PS}	150	177^{+100}_{-100}	Ω_Λ	0.7050	$0.750^{+0.044}_{-0.046}$	z_{drag}	1061.57	$1066.0^{+5.0}_{-4.8}$
A_{143}^{PS}	42	62^{+30}_{-30}	Ω_m	0.2950	$0.250^{+0.046}_{-0.044}$	r_{drag}	147.45	$147.7^{+1.2}_{-1.2}$
A_{217}^{PS}	103.0	108^{+40}_{-40}	σ_8	0.832	$0.938^{+0.086}_{-0.091}$	k_D	0.13881	$0.1369^{+0.0024}_{-0.0023}$
A_{143}^{CIB}	7.99	—	z_{re}	11.6	21^{+7}_{-7}	$100\theta_D$	0.16286	$0.1646^{+0.0026}_{-0.0025}$
A_{217}^{CIB}	32.0	32^{+20}_{-20}	H_0	69.06	$73.7^{+4.9}_{-4.8}$	z_{eq}	3346	3213^{+160}_{-150}
A_{143}^{tSZ}	8.96	—	$10^9 A_s$	2.23	$2.93^{+0.63}_{-0.61}$	$100\theta_{\text{eq}}$	0.8255	$0.857^{+0.035}_{-0.035}$
$r_{143 \times 217}^{\text{PS}}$	0.876	> 0.736	$\Omega_m h^2$	0.1407	$0.1351^{+0.0065}_{-0.0061}$	$r_{\text{drag}}/D_V(0.57)$	0.07258	$0.0757^{+0.0034}_{-0.0033}$

Best-fit $\chi_{\text{eff}}^2 = 8217.97$; R-1 = 0.00705

χ_{eff}^2 : CMB - lowl: -8.84 CamSpec: 7797.91 SN - SNLS: 428.13

20.18 base_yhe_planck_lowl_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02237	$0.0234^{+0.0014}_{-0.0013}$	$r_{143 \times 217}^{\text{CIB}}$	0.53	—	$\Omega_m h^3$	0.09678	$0.0988^{+0.0030}_{-0.0029}$
$\Omega_c h^2$	0.1182	$0.1132^{+0.0079}_{-0.0079}$	γ^{CIB}	0.517	$0.54^{+0.24}_{-0.26}$	Y_P	0.279	$0.326^{+0.068}_{-0.066}$
$100\theta_{\text{MC}}$	1.04252	$1.0450^{+0.0036}_{-0.0033}$	c_{100}	1.00059	$1.00058^{+0.00078}_{-0.00078}$	$10^9 A_s e^{-2\tau}$	1.8405	$1.844^{+0.031}_{-0.030}$
τ	0.095	$0.20^{+0.11}_{-0.12}$	c_{217}	0.99635	$0.9965^{+0.0027}_{-0.0026}$	Age/Gyr	13.741	$13.54^{+0.26}_{-0.27}$
Y_{He}	0.279	$0.326^{+0.068}_{-0.066}$	$\xi^{\text{tSZ-CIB}}$	0.00	—	z_*	1091.15	$1091.6^{+1.8}_{-1.8}$
n_s	0.974	$1.015^{+0.056}_{-0.053}$	A^{kSZ}	9.68	—	r_*	144.78	$145.1^{+1.3}_{-1.3}$
$\ln(10^{10} A_s)$	3.102	$3.31^{+0.22}_{-0.24}$	β_1^1	0.64	$0.5^{+1.1}_{-1.1}$	$100\theta_*$	1.04182	$1.0429^{+0.0018}_{-0.0017}$
A_{100}^{PS}	130	178^{+100}_{-100}	Ω_Λ	0.700	$0.735^{+0.050}_{-0.051}$	z_{drag}	1061.0	$1064.6^{+5.1}_{-4.9}$
A_{143}^{PS}	39	61^{+30}_{-30}	Ω_m	0.300	$0.265^{+0.051}_{-0.050}$	r_{drag}	147.47	$147.6^{+1.2}_{-1.2}$
A_{217}^{PS}	102.4	108^{+40}_{-40}	σ_8	0.832	$0.915^{+0.092}_{-0.093}$	k_D	0.13909	$0.1376^{+0.0024}_{-0.0025}$
A_{143}^{CIB}	5.35	—	z_{re}	11.6	$19.0^{+7.8}_{-8.2}$	$100\theta_D$	0.16253	$0.1640^{+0.0027}_{-0.0024}$
A_{217}^{CIB}	29	32^{+20}_{-20}	H_0	68.6	$72.1^{+5.3}_{-5.0}$	z_{eq}	3358	3263^{+170}_{-160}
A_{143}^{tSZ}	9.50	—	$10^9 A_s$	2.22	$2.75^{+0.66}_{-0.59}$	$100\theta_{\text{eq}}$	0.8225	$0.846^{+0.038}_{-0.036}$
$r_{143 \times 217}^{\text{PS}}$	0.881	> 0.734	$\Omega_m h^2$	0.1412	$0.1372^{+0.0069}_{-0.0068}$	$r_{\text{drag}}/D_V(0.57)$	0.07226	$0.0746^{+0.0037}_{-0.0033}$

Best-fit $\chi_{\text{eff}}^2 = 7919.95$; R-1 = 0.00682

χ_{eff}^2 : CMB - lowl: -8.35 CamSpec: 7797.30 SN - Union2.1: 130.17

20.19 base_yhe_WMAP

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02270	$0.0226^{+0.0010}_{-0.00096}$	σ_8	0.813	$0.813^{+0.079}_{-0.071}$	r_*	145.77	$145.7^{+3.3}_{-3.5}$
$\Omega_c h^2$	0.1140	$0.114^{+0.012}_{-0.011}$	z_{re}	10.91	$10.8^{+2.7}_{-2.6}$	$100\theta_*$	1.04065	$1.0404^{+0.0045}_{-0.0046}$
$100\theta_{\text{MC}}$	1.0404	$1.0407^{+0.0081}_{-0.0074}$	H_0	69.64	$69.6^{+4.4}_{-4.2}$	z_{drag}	1060.2	$1060.8^{+7.4}_{-6.2}$
τ	0.0920	$0.089^{+0.028}_{-0.028}$	$10^9 A_s$	2.221	$2.21^{+0.18}_{-0.17}$	r_{drag}	148.35	$148.3^{+3.3}_{-3.5}$
Y_{He}	0.242	< 0.411	$\Omega_m h^2$	0.1373	$0.138^{+0.012}_{-0.011}$	k_D	0.1399	$0.1392^{+0.0056}_{-0.0060}$
n_s	0.9749	$0.975^{+0.030}_{-0.028}$	$\Omega_m h^3$	0.0956	$0.0957^{+0.0056}_{-0.0052}$	$100\theta_D$	0.1603	$0.1613^{+0.0089}_{-0.0077}$
$\ln(10^{10} A_s)$	3.101	$3.096^{+0.082}_{-0.072}$	Y_P	0.242	< 0.411	z_{eq}	3266	3272^{+280}_{-270}
A_{tSZ}	0.72	—	$10^9 A_s e^{-2\tau}$	1.848	$1.85^{+0.12}_{-0.11}$	$100\theta_{\text{eq}}$	0.8391	$0.839^{+0.049}_{-0.050}$
Ω_Λ	0.717	$0.715^{+0.055}_{-0.057}$	Age/Gyr	13.751	$13.75^{+0.25}_{-0.26}$	$r_{\text{drag}}/D_V(0.57)$	0.07318	$0.0732^{+0.0036}_{-0.0034}$
Ω_m	0.283	$0.285^{+0.057}_{-0.055}$	z_*	1088.9	$1089.9^{+9.1}_{-7.5}$			

Best-fit $\chi^2_{\text{eff}} = 7558.02$; R-1 = 0.00703

χ^2_{eff} : CMB - WMAP: 7558.02

20.20 base_yhe_WMAP_post_BAO

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02250	$0.02250^{+0.00083}_{-0.00086}$	σ_8	0.817	$0.823^{+0.066}_{-0.059}$	r_*	145.43	$145.1^{+2.5}_{-2.7}$
$\Omega_c h^2$	0.1159	$0.1166^{+0.0075}_{-0.0068}$	z_{re}	10.54	$10.7^{+2.7}_{-2.6}$	$100\theta_*$	1.03984	$1.0399^{+0.0044}_{-0.0044}$
$100\theta_{\text{MC}}$	1.0394	$1.0404^{+0.0084}_{-0.0076}$	H_0	68.40	$68.5^{+2.0}_{-1.9}$	z_{drag}	1059.6	$1060.9^{+7.6}_{-6.5}$
τ	0.0869	$0.086^{+0.027}_{-0.025}$	$10^9 A_s$	2.210	$2.22^{+0.17}_{-0.16}$	r_{drag}	148.06	$147.8^{+2.5}_{-2.8}$
Y_{He}	0.234	< 0.416	$\Omega_m h^2$	0.1391	$0.1398^{+0.0076}_{-0.0071}$	k_D	0.1404	$0.1393^{+0.0058}_{-0.0062}$
n_s	0.9696	$0.971^{+0.030}_{-0.026}$	$\Omega_m h^3$	0.0951	$0.0958^{+0.0057}_{-0.0053}$	$100\theta_D$	0.1600	$0.1617^{+0.0090}_{-0.0079}$
$\ln(10^{10} A_s)$	3.095	$3.100^{+0.077}_{-0.075}$	Y_P	0.234	$0.26^{+0.16}_{-0.16}$	z_{eq}	3308	3325^{+180}_{-170}
A_{tSZ}	0.00	—	$10^9 A_s e^{-2\tau}$	1.857	$1.87^{+0.11}_{-0.094}$	$100\theta_{\text{eq}}$	0.8297	$0.828^{+0.026}_{-0.027}$
Ω_Λ	0.7027	$0.702^{+0.023}_{-0.025}$	Age/Gyr	13.812	$13.78^{+0.25}_{-0.26}$	$r_{\text{drag}}/D_V(0.57)$	0.07227	$0.0723^{+0.0014}_{-0.0014}$
Ω_m	0.2973	$0.298^{+0.025}_{-0.023}$	z_*	1089.0	$1090.6^{+8.8}_{-7.3}$			

Best-fit $\chi^2_{\text{eff}} = 7559.24$; R-1 = 0.01189

χ^2_{eff} : BAO - 6DF: 0.06 DR7: 0.34 DR9: 0.86 CMB - WMAP: 7557.97

20.21 base_yhe_WMAP_post_HST

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02295	$0.02292^{+0.00093}_{-0.00093}$	σ_8	0.801	$0.798^{+0.073}_{-0.068}$	r_*	146.54	$146.5^{+3.0}_{-3.1}$
$\Omega_c h^2$	0.1105	$0.1105^{+0.0098}_{-0.0095}$	z_{re}	11.06	$10.9^{+2.7}_{-2.6}$	$100\theta_*$	1.04144	$1.0414^{+0.0042}_{-0.0042}$
$100\theta_{\text{MC}}$	1.0410	$1.0415^{+0.0076}_{-0.0070}$	H_0	71.40	$71.6^{+3.3}_{-3.3}$	z_{drag}	1060.2	$1060.8^{+7.1}_{-5.9}$
τ	0.0964	$0.093^{+0.028}_{-0.029}$	$10^9 A_s$	2.219	$2.21^{+0.18}_{-0.17}$	r_{drag}	149.05	$149.1^{+3.0}_{-3.1}$
Y_{He}	0.235	< 0.400	$\Omega_m h^2$	0.1341	$0.1340^{+0.0097}_{-0.0094}$	k_D	0.1396	$0.1390^{+0.0053}_{-0.0060}$
n_s	0.9825	$0.982^{+0.028}_{-0.026}$	$\Omega_m h^3$	0.0957	$0.0959^{+0.0053}_{-0.0051}$	$100\theta_D$	0.1599	$0.1607^{+0.0086}_{-0.0072}$
$\ln(10^{10} A_s)$	3.100	$3.093^{+0.081}_{-0.078}$	Y_P	0.235	< 0.400	z_{eq}	3188	3187^{+230}_{-220}
A_{tSZ}	0.24	—	$10^9 A_s e^{-2\tau}$	1.830	$1.83^{+0.11}_{-0.10}$	$100\theta_{\text{eq}}$	0.8557	$0.857^{+0.041}_{-0.043}$
Ω_Λ	0.7370	$0.738^{+0.039}_{-0.040}$	Age/Gyr	13.688	$13.68^{+0.22}_{-0.24}$	$r_{\text{drag}}/D_V(0.57)$	0.07458	$0.0747^{+0.0028}_{-0.0027}$
Ω_m	0.2630	$0.262^{+0.040}_{-0.039}$	z_*	1088.0	$1088.8^{+8.4}_{-6.7}$			

Best-fit $\chi^2_{\text{eff}} = 7559.82$; R-1 = 0.00938

χ^2_{eff} : CMB - WMAP: 7558.75 Hubble - HST: 1.07

20.22 base_yhe_WMAP_post_SNLS

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02284	$0.02281^{+0.00099}_{-0.00095}$	σ_8	0.803	$0.797^{+0.069}_{-0.064}$	r_*	146.42	$146.5^{+2.8}_{-3.0}$
$\Omega_c h^2$	0.1112	$0.1109^{+0.0097}_{-0.0095}$	z_{re}	11.23	$10.7^{+2.6}_{-2.6}$	$100\theta_*$	1.04073	$1.0408^{+0.0044}_{-0.0044}$
$100\theta_{\text{MC}}$	1.0403	$1.0406^{+0.0075}_{-0.0069}$	H_0	70.79	$71.0^{+3.9}_{-3.6}$	z_{drag}	1060.1	$1060.2^{+6.6}_{-5.6}$
τ	0.0977	$0.092^{+0.028}_{-0.029}$	$10^9 A_s$	2.222	$2.20^{+0.17}_{-0.16}$	r_{drag}	148.97	$149.1^{+2.9}_{-3.0}$
Y_{He}	0.236	< 0.387	$\Omega_m h^2$	0.1347	$0.1343^{+0.0095}_{-0.0093}$	k_D	0.1396	$0.1393^{+0.0051}_{-0.0058}$
n_s	0.9780	$0.978^{+0.029}_{-0.027}$	$\Omega_m h^3$	0.09534	$0.0953^{+0.0051}_{-0.0049}$	$100\theta_D$	0.1599	$0.1603^{+0.0082}_{-0.0067}$
$\ln(10^{10} A_s)$	3.101	$3.089^{+0.078}_{-0.075}$	Y_P	0.236	< 0.387	z_{eq}	3203	3194^{+230}_{-220}
A_{tSZ}	1.26	—	$10^9 A_s e^{-2\tau}$	1.828	$1.83^{+0.11}_{-0.094}$	$100\theta_{\text{eq}}$	0.8519	$0.854^{+0.042}_{-0.042}$
Ω_Λ	0.7312	$0.733^{+0.040}_{-0.045}$	Age/Gyr	13.724	$13.72^{+0.24}_{-0.25}$	$r_{\text{drag}}/D_V(0.57)$	0.07413	$0.0743^{+0.0032}_{-0.0029}$
Ω_m	0.2688	$0.267^{+0.045}_{-0.040}$	z_*	1088.2	$1088.5^{+7.9}_{-6.3}$			

Best-fit $\chi^2_{\text{eff}} = 7985.01$; R-1 = 0.00669

χ^2_{eff} : CMB - WMAP: 7558.56 SN - SNLS: 426.45

20.23 base_yhe_WMAP_post_Union2

Parameter	Best fit	95% limits	Parameter	Best fit	95% limits	Parameter	Best fit	95% limits
$\Omega_b h^2$	0.02269	$0.02266^{+0.00097}_{-0.00094}$	σ_8	0.811	$0.810^{+0.074}_{-0.066}$	r_*	145.85	$145.8^{+3.0}_{-3.2}$
$\Omega_c h^2$	0.1136	$0.114^{+0.011}_{-0.0093}$	z_{re}	10.84	$10.7^{+2.7}_{-2.6}$	$100\theta_*$	1.04072	$1.0404^{+0.0044}_{-0.0045}$
$100\theta_{\text{MC}}$	1.0405	$1.0407^{+0.0080}_{-0.0073}$	H_0	69.79	$69.9^{+3.9}_{-3.7}$	z_{drag}	1060.2	$1060.6^{+7.3}_{-6.1}$
τ	0.0910	$0.089^{+0.028}_{-0.026}$	$10^9 A_s$	2.216	$2.21^{+0.18}_{-0.17}$	r_{drag}	148.44	$148.4^{+3.0}_{-3.2}$
Y_{He}	0.245	< 0.406	$\Omega_m h^2$	0.1370	$0.137^{+0.010}_{-0.0098}$	k_D	0.1397	$0.1392^{+0.0055}_{-0.0061}$
n_s	0.9754	$0.975^{+0.030}_{-0.028}$	$\Omega_m h^3$	0.0956	$0.0956^{+0.0054}_{-0.0052}$	$100\theta_D$	0.1604	$0.1611^{+0.0088}_{-0.0075}$
$\ln(10^{10} A_s)$	3.098	$3.095^{+0.079}_{-0.076}$	Y_P	0.245	< 0.406	z_{eq}	3258	3258^{+250}_{-230}
A_{tSZ}	0.36	—	$10^9 A_s e^{-2\tau}$	1.847	$1.85^{+0.12}_{-0.10}$	$100\theta_{\text{eq}}$	0.8407	$0.841^{+0.043}_{-0.043}$
Ω_Λ	0.7188	$0.718^{+0.044}_{-0.049}$	Age/Gyr	13.747	$13.74^{+0.25}_{-0.26}$	$r_{\text{drag}}/D_V(0.57)$	0.07332	$0.0734^{+0.0032}_{-0.0029}$
Ω_m	0.2812	$0.282^{+0.049}_{-0.044}$	z_*	1088.9	$1089.6^{+8.8}_{-7.1}$			

Best-fit $\chi^2_{\text{eff}} = 7687.80$; R-1 = 0.00687

χ^2_{eff} : CMB - WMAP: 7557.91 SN - Union2.1: 129.90